



STIC Search Report

EIC 2600

STIC Database Tracking Number: 127003

TO: Lin Ye
Location: CPK 2 6D39
Art Unit: 2615
Wednesday, July 14, 2004

Case Serial Number: 09867607

From: Pamela Reynolds
Location: EIC 2600
PK2-3C03
Phone: 306-0255

Pamela.Reynolds@uspto.gov

Search Notes

Dear Lin Ye,

Please find attached the search results for 09867607. I used the search strategy I emailed to you to edit, which you did. I searched the standard Dialog files, IEEE, Proquest, the wayback machine, and the internet.

If you would like a re-focus please let me know.

Thank you.

Pamela Reynolds



SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Lin Ye Examiner #: 79010 Date: 7/12/04
 Art Unit: 2615 Phone Number 305-3250 Serial Number: 09867607
 Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Image Quality Selecting Method on digital camera
 Inventors (please provide full names): Masashi Inoue & Yoshikuni Nishio

Earliest Priority Filing Date: 5/31/2000

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

setting an image quality according to select the
 number of pixels and the image compression rate
 on display.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Pamela Reynolds</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>306-0255</u>	AA Sequence (#) _____	Dialog <input checked="" type="checkbox"/>
Searcher Location: <u>PLC 2303</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>7-13-04 12:00</u>	Bibliographic <input checked="" type="checkbox"/>	Dr. Link _____
Date Completed: <u>7-15-04 4:00</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>45</u>	Fulltext <input checked="" type="checkbox"/>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <input checked="" type="checkbox"/>
Online Time: <u>175</u>	Other _____	Other (specify) <u>left program way back</u>

File 344:Chinese Patents Abs Aug 1985-2004/May
(c) 2004 European Patent Office
File 347:JAPIO Nov 1976-2004/Mar(Updated 040708)
(c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200444
(c) 2004 Thomson Derwent

Set	Items	Description
S1	1709103	IMAG? OR PHOTOS OR PHOTO OR PHOTOGRAPH? OR PICTURE?
S2	147600	PIXEL? OR PEL OR PICTURE(3N)ELEMENT?
S3	136654	(COMPRESS? OR SHRINK? OR ZIP?? OR ZIPPING OR SUPPRESS?) AND (RATE OR RATES OR RATING OR SETTING? OR RATIO?)
S4	128835	CURSOR? OR POINTER? OR ARROW??
S5	998381	FINE OR NORMAL OR BASIC
S6	75328	S2 AND (AMOUNT OR NUMBER? OR SUM OR TOTAL OR AREA OR REGION OR COMBINATION OR SIZE OR DIMENSION?)
S7	15869	(SELECT? OR IDENTIF? OR CHOOS? OR MARKING OR CLICK) AND S6
S8	27911	DIGITAL(3N)CAMERA??
S9	37839	(CHANG? OR MODIF? OR EDIT? OR SWITCH? OR ALTER? OR ADJUST?) AND S3
S10	150781	S1 AND QUALITY
S11	12641	AU=(INOUE, M? OR NISHIURA. Y? OR INOUE M? OR NISHIURA Y?)
S12	813091	IC=H04N?
S13	134	S8 AND S9
S14	117	S13 AND S12
S15	10	S14 AND S6
S16	7	S15 AND AD=20000531:20040712/PR
S17	3	S15 NOT S16
S18	2906	S10 AND S3
S19	103	S18 AND S8
S20	0	S19 AND (BEFORE OR PRIOR) AND TAKING
S21	0	S19 AND S4 AND (SELECT? OR CHOOS?) AND OPTION?
S22	8	S19 AND S5
S23	8	S22 NOT S17
S24	2	S23 AND AD=20000531:20040712/PR
S25	6	S23 NOT S24
S26	29	S11 AND S8
S27	25	S26 AND S12
S28	10	S27 AND AD=20000531:20040712/PR
S29	15	S27 NOT S28
S30	15	S29 NOT (S16 OR S22 OR S25)
S31	15	IDPAT (sorted in duplicate/non-duplicate order)
S32	14	IDPAT (primary/non-duplicate records only)

17/3,K/1 (Item 1 from file: 347)
DIALOG(R) File 347:JAPIO
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06809240 **Image available**
IMAGE PROCESSING METHOD AND SYSTEM AND RECORDING MEDIUM STORING IMAGE
PROCESSING PROGRAM

PUB. NO.: 2001-036726 [JP 2001036726 A]
PUBLISHED: February 09, 2001 (20010209)
INVENTOR(s): TANAKA TSUNEO
APPLICANT(s): NORITSU KOKI CO LTD
APPL. NO.: 11-205378 [JP 99205378]
FILED: July 19, 1999 (19990719)

INTL CLASS: H04N-001/387 ; G06T-003/00; H04N-005/228

ABSTRACT

PROBLEM TO BE SOLVED: To **suppress** the distortion of an image caused by the coordinate transformation performed in an important **area** by applying coordinate transformation to the **pixels** of the digital image data on an original picture so that the moving **amount** of the **pixels** having larger distance from a reference **pixel** increases more.

SOLUTION: When an original picture having a 3:4 aspect **ratio** is converted into a 1:1.5 aspect **ratio** corresponding to a silver salt photograph in regard to the photographing data of a **digital camera**, the horizontal direction of the original picture is enlarged by 9/8 times. A **pixel** included in an **area** of about 30% of the entire image **area** and is at the center part of the original picture is defined as a reference **pixel** and then the coordinates transformation is performed so as to increase the moving **amount** of coordinates of a **pixel** of interest more as it is located further away from the reference **pixel**. The moving **amount** $F(X)$ of the **pixel** of interest is shown by expression I, where $wk1$ meaning the positional **change** scale factor is shown by expression II with x and $x0$ meaning the X coordinate components of the **pixel** of interest and reference **pixel** respectively, (n) meaning a natural **number** equal to a multiple of 2 and (a) and (b) meaning the parametrical constants respectively...

17/3,K/2 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014446065 **Image available**
WPI Acc No: 2002-266768/200231
XRPX Acc No: N02-207307

Solid state image pick up device e.g. digital still camera, selects pixels in image pick up element, based on modified clock frequency, in sequence corresponding to color coding to read out pixel signals

Patent Assignee: SONY CORP (SONY); MABUCHI K (MABU-I); SHIONO K (SHIO-I)
Inventor: MABUCHI K; SHIONO K
Number of Countries: 030 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20010030700	A1	20011018	US 2001834431	A	20010413	200231 B
CN 1317831	A	20011017	CN 2001116399	A	20010413	200231
EP 1148712	A2	20011024	EP 2001109061	A	20010411	200231
JP 2001298748	A	20011026	JP 2000111494	A	20000413	200231

TW 513808 A 20021211 TW 2001108453 A 20010409 200353

Priority Applications (No Type Date): JP 2000111494 A 20000413

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20010030700 A1 10 H04N-003/14

CN 1317831 A H01L-027/146

EP 1148712 A2 E H04N-003/15

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

JP 2001298748 A 8 H04N-009/07

TW 513808 A H01L-027/14

Solid state image pick up device e.g. digital still camera , selects pixels in image pick up element, based on modified clock frequency, in sequence corresponding to color coding to read out pixel signals

Abstract (Basic):

... Color filters with preset color coding are formed for respective **pixels** in XY address type solid state image pick up element. A frequency **changing** unit **changes** a clock frequency of a system when thinning-out read is specified from the pick up element. A drive unit selects the **pixels** based on the **changed** clock frequency, in a sequence corresponding to the color coding to the read out **pixel** signals.

... Solid state image pick up device e.g. **digital still camera** .
...

...Since thinning-out processing can be carried out during reading of **pixel** information from the **pixels** , the **amount** of **pixel** information can be **compressed** without applying load to a signal processing system. Power consumption is reduced, since the clock frequency of the system is **changed** . **Frame rate** can be made constant, even if the operation mode is **changed** .

...Title Terms: **PIXEL** ;

...International Patent Class (Main): **H04N-003/14** ...

... **H04N-003/15** ...

... **H04N-009/07**

International Patent Class (Additional): **H04N-005/335** ...

... **H04N-009/04**

17/3,K/3 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012981812 ****Image available****

WPI Acc No: 2000-153665/200014

XRPX Acc No: N00-114648

Image processing procedure in facsimile, digital camera - involves computing essential area of image data based on its degree of importance and then changing compression and expansion rate of each pixel of image data accordingly

Patent Assignee: RICOH KK (RICO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000013608	A	20000114	JP 98175999	A	1998062	200014 B

Priority Applications (No Type Date): JP 98175999 A 19980623

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000013608	A	13	H04N-001/41	

Image processing procedure in facsimile, digital camera - ...

...involves computing essential area of image data based on its degree of importance and then changing compression and expansion rate of each pixel of image data accordingly

...Abstract (Basic): is computed using the distribution function of the image data, based on which the essential **area** of image data in an image is computed. Then the assignment of the **number** of quantization bits provided to each **pixel** of the image data is reduced or increased based on the degree of importance...

...USE - For processing image in facsimile, **digital camera** etc...

...ADVANTAGE - Since the **compression rate** is **changed** depending on the degree of importance of image data, loss of required image information is minimized. Since the encoding process is performed by **changing** the **number** of quantization bits, sensitivity of image **compression** and expansion is increased...

...Title Terms: **AREA ;**

International Patent Class (Main): **H04N-001/41**

International Patent Class (Additional): **H04N-007/24**

?

25/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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06571001 **Image available**
IMAGE PROCESSING METHOD AND IMAGE PROCESSOR

PUB. NO.: 2000-156785 [JP 2000156785 A]
PUBLISHED: June 06, 2000 (20000606)
INVENTOR(s): ENOMOTO ATSUSHI
APPLICANT(s): FUJI PHOTO FILM CO LTD
APPL. NO.: 11-126028 [JP 99126028]
FILED: May 06, 1999 (19990506)
PRIORITY: 10-261304 [JP 98261304], JP (Japan), September 16, 1998
(19980916)

IMAGE PROCESSING METHOD AND IMAGE PROCESSOR

ABSTRACT

PROBLEM TO BE SOLVED: To obtain high **quality** print such that a high **quality image** is reproduced, even if it is from an **image photographed** by an inexpensive **camera** or an inexpensive **digital camera**, by discriminating lens type to obtain information about the lens by which the **image** is **photographed** and changing intensity of a sharpness emphasis processing of a corresponding **image** depending on the lens type.

SOLUTION: Sharpness processing is performed more intensely than a **normal** sharpness emphasis processing, desirably a granular **suppressing** sharpness emphasis processing to the **image photographed** by the prescribed type of lens to be discriminated by a lens type discriminating part, and the sharpness processing is performed more intensely by **setting** a gain H multiplied by a second amplifier 104 which is larger than a **normal** set value, namely, by emphasizing high frequency components the more. Suitable gains M and H...

25/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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05707310 **Image available**
DIGITAL CAMERA

PUB. NO.: 09-322110 [JP 9322110 A]
PUBLISHED: December 12, 1997 (19971212)
INVENTOR(s): MATSUNAGA TAKESHI
APPLICANT(s): CASIO COMPUT CO LTD [350750] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 08-135410 [JP 96135410]
FILED: May 29, 1996 (19960529)

DIGITAL CAMERA

ABSTRACT

PROBLEM TO BE SOLVED: To obtain the **digital camera** by which a **compression rate** of an **image** picked up and stored in a recording medium is changed...

...SOLUTION: A CPU 31 designates an **image quality** revision object

image among image data stored in a flush memory 27 in the FINE mode (low compression rate) through the image quality conversion processing, reads the designated image data and a compression /expansion circuit 26 conducts expansion processing to the data and compresses the data again in the economy mode (high compression rate). Then the compressed image data again are stored in an image data storage area of the flush memory 27 and header information of a header part...

25/3,K/3 (Item 3 from file: 347)

DIALOG(R)File 347:JAPIO

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05170370 **Image available**

DIGITAL STILL CAMERA

PUB. NO.: 08-125870 [JP 8125870 A]

PUBLISHED: May 17, 1996 (19960517)

INVENTOR(s): KIMIZUKA CHIKADA

SHIOZAWA KAZUO

YONEDA TADAAKI

TAMURA TOMOAKI

APPLICANT(s): KONICA CORP [000127] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 06-256907 [JP 94256907]

FILED: October 21, 1994 (19941021)

DIGITAL STILL CAMERA

ABSTRACT

PURPOSE: To secure the amount of recording data based on the optimum picture quality and the high compression rate by switching and photographing the normal photographing mode and the document photographing mode and compressing the image data by compression means most suitable for the respective modes...

...CONSTITUTION: A main microcomputer 10 mainly controls the sequence of photographing , recording, and reproduction and involves a ROM with a built-in software and a RAM which reads and writes data for operation required to the control. When a photographing mode selector 23 selects the document mode, it executes the operation as an image processor, that is, the multilevel processing such as the binarization, the quaternary processing, and the octal processing of image data photographed by the software and the data compression by the runlength encoding thereafter and the extension and reproduction of the image data at the document mode read out from the external memory. At the time of selecting the natural picture mode, it performs the compressed reproduction of the photographed image in the system suitable for the natural picture and the serial port transmission with the external equipment.

25/3,K/4 (Item 4 from file: 347)

DIALOG(R)File 347:JAPIO

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03980192 **Image available**

DIGITAL STILL VIDEO CAMERA

PUB. NO.: 04-345292 [JP 4345292 A]

PUBLISHED: December 01, 1992 (19921201)

INVENTOR(s): SAKAI TAKEOKI
YONEDA TADAAKI
NAGAISHI KATSUYA
KAWAZU KEIICHI
OTA YOSHITAKA
APPLICANT(s): KONICA CORP [000127] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 03-117480 [JP 91117480]
FILED: May 22, 1991 (19910522)
JOURNAL: Section: E, Section No. 1353, Vol. 17, No. 202, Pg. 137,
April 20, 1993 (19930420)

DIGITAL STILL VIDEO CAMERA
...JAPIO CLASS: **Photography** & Cinematography)

ABSTRACT

PURPOSE: To obtain a **photographing** function corresponding to the **photographer**'s desire by changing the **compression** processing conditions of data in accordance with the device by the **photographer**.

...

...CONSTITUTION: When a **picture quality** mode changing-over switch 21 is thrown to the side of a high **picture quality** mode terminal A(sub 2), a multiplexer 9 is connected with the luminance signal Y...

...matrix circuit 8 so that only a luminance signal Y is inputted to a data **compressing** circuit 10. The **compressing** circuit 10 uses a bit assigned to color difference signals R-Y and B-Y...

... luminance signal Y at the time of quantization of luminance signal Y data. Therefore, the **picture** is recorded in the black white **picture** but the **picture** with high **quality** is recorded, When the changing-over switch 21 is thrown to the **normal picture quality** mode terminal A(sub 1), the multiplexer 9 inputs the luminance signal Y and the color difference signal R-Y and B-Y to the **compressing** circuit 10. The **compresser** circuit 10 executes **compressing** and processing by a **normal compression rate** and recording is executed in the color **picture**.

25/3,K/5 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009769295 **Image available**
WPI Acc No: 1994-049146/199406
XRPX Acc No: N94-038620

Low power video security monitoring system - detects motion in covered area and converts video signal into compressed digital data for transmission to remote monitoring station

Patent Assignee: HATA M (HATA-I); KOZ M C (KOZM-I); INTELLIGENT INSTR CORP (INTE-N)

Inventor: HATA M; KOZ M C

Number of Countries: 026 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9403014	A1	19940203	WO 92US6221	A	19920724	199406 B
AU 9224073	A	19940214	AU 9224073	A	19920724	199425
			WO 92US6221	A	19920724	
EP 651933	A1	19950510	EP 92917695	A	19920724	199523

			WO 92US6221	A	19920724	
EP 651933	A4	19950524	EP 92917695	A	19920000	199615
AU 672756	B	19961017	AU 9224073	A	19920724	199649 N
US 5581297	A	19961203	WO 92US6221	A	19920724	199703
			US 95367219	A	19950110	
JP 8508616	W	19960910	WO 92US6221	A	19920724	199704
			JP 94504393	A	19920724	

Priority Applications (No Type Date): WO 92US6221 A 19920724

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing	Notes
WO 9403014	A1	E	31	H04N-007/18		
				Designated States (National):	AU BB BR CA FI JP KP KR NO PL RU US	
				Designated States (Regional):	AT BE CH DE DK ES FR GB GR IT LU MC NL SE	
AU 9224073	A			H04N-007/18	Based on patent	WO 9403014
EP 651933	A1	E	31	H04N-007/18	Based on patent	WO 9403014
				Designated States (Regional):	BE DE FR GB IT NL SE	
AU 672756	B			H04N-007/18	Previous Publ. patent	AU 9224073
					Based on patent	WO 9403014
US 5581297	A		12	H04N-007/18	Based on patent	WO 9403014
JP 8508616	W		38	H04N-007/18	Based on patent	WO 9403014
EP 651933	A4			H04N-007/18		

... detects motion in covered area and converts video signal into compressed digital data for transmission to remote monitoring station

...Abstract (Basic): monitoring system (10) establishes a communication link with a video monitoring facility and begins transmitting compressed video images of the area...

...reduced clock frequency and power consumption. Power is supplied during this time by an ISDN basic access communication channel (28...

...If motion occurs, a digital video image compression subsystem (16) begins producing low quality compressed video data for transmission to the monitoring facility. If motion occurs in the central region of the area viewed by the lens, the subsystem produces a single high quality compressed video image .

...Movement sensing security devices. Can be installed at randomly located sites. Detects movement and retains image of intrusion even following power interruption. Economic system

...Abstract (Equivalent): a video camera for producing a video signal from an image of an area viewed by a lens of said video camera, said video camera including...

...a digital video image compression subsystem for receiving the video signal from said video camera, for digitally processing the video...

...area viewed by the lens of said video camera, for converting the video signal into compressed digital video data that provides an image of the area viewed by the lens of said video camera, and for transmitting the compressed digital video data...

...a digital signal transmission interface and control for controlling operation of said video camera and said digital video image compression subsystem, for receiving the compressed digital video data from said digital video image compression subsystem, and for transmitting the compressed digital video data from said video security monitoring system to a remote video monitoring facility via a

communication channel if said digital video **image compression** subsystem determines that motion has occurred in the area viewed by the lens of said video **camera** , said **digital** signal transmission interface and control also managing power consumption by said video security monitoring system by causing said video **camera** and said **digital** signal **image compression** subsystem to operate at a slower clock speed when motion is not present in the...

...a camera controller for effecting changes in **settings** of the iris control of said video camera to compensate for changes in video camera

...Title Terms: **COMPRESS** ;

25/3,K/6 (Item 2 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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008791872 **Image available**
 WPI Acc No: 1991-295887/199140
 XRPX Acc No: N91-226642

Electronic still imaging apparatus - has digital signal processor for generating image of resolution lower than predetermined resolution

Patent Assignee: EASTMAN KODAK CO (EAST)
 Inventor: KUCHTA D W; SUCY P J
 Number of Countries: 016 Number of Patents: 010
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9114334	A	19910919				199140	B
EP 472699	A	19920304	EP 91906100	A	19910313	199210	
JP 4506144	W	19921022	JP 91506217	A	19910313	199249	
			WO 91US1663	A	19910313		
US 5164831	A	19921117	US 90494205	A	19900315	199249	
EP 472699	B1	19960529	EP 91906100	A	19910313	199626	
			WO 91US1663	A	19910313		
DE 69119847	E	19960704	DE 619847	A	19910313	199632	
			EP 91906100	A	19910313		
			WO 91US1663	A	19910313		
JP 3072852	B2	20000807	JP 91506217	A	19910313	200042	
			WO 91US1663	A	19910313		
JP 2000295571	A	20001020	JP 91506217	A	19910313	200059	
			JP 200060620	A	19910313		
JP 3302671	B2	20020715	JP 91506217	A	19910313	200253	
			JP 200060620	A	19910313		
JP 2002344884	A	20021129	JP 200060620	A	19910313	200309	
			JP 200264813	A	19910313		

Priority Applications (No Type Date): US 90494205 A 19900315

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9114334	A				
					Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU NL SE
EP 472699	A				
					Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE
JP 4506144	W		6	H04N-005/91	Based on patent WO 9114334
US 5164831	A		9	H04N-005/30	
EP 472699	B1 E	12		H04N-001/21	Based on patent WO 9114334
					Designated States (Regional): DE FR GB
DE 69119847	E			H04N-001/21	Based on patent EP 472699
					Based on patent WO 9114334

JP 3072852	B2	10 H04N-005/91	Previous Publ. patent JP 4506144 Based on patent WO 9114334
JP 2000295571	A	8 H04N-005/91	Div ex application JP 91506217
JP 3302671	B2	8 H04N-005/91	Div ex application JP 91506217
			Previous Publ. patent JP 2000295571
JP 2002344884	A	9 H04N-005/91	Div ex application JP 200060620

Electronic still imaging apparatus...

...has digital signal processor for generating image of resolution lower than predetermined resolution

...Abstract (Basic): The apparatus includes an **image** sensor (12), an exposure device (10) and an A/D converter (16). It also includes a digital signal processor (22) for generating **images** of resolutions lower than the predetermined resolution...

...A file controller (40) generates a multi-format **image** file representing **images** of the predetermined resolution and resolutions lower than the predetermined resolution. Devices (22, 26) are provided for storing the **image** file in a digital memory...

...USE/ADVANTAGE - Provide fast and convenient way for **image** review and display. (23pp Dwg.No.1/3)

...Abstract (Equivalent): Electronic still **imaging** apparatus employing digital processing of **image** signals corresponding to a still **image** and storage of the processed **image** signals in a digital memory (24) for subsequent access by ancillary processing equipment, said **imaging** apparatus including an **image** sensor (12) having an array of photosites corresponding to **picture** elements of the **image**, means (10) for exposing said sensor to **image** light so that analog **image** information is generated in respective photosites, and means (16) for converting the analog **image** information into digital **image** signals corresponding to a predetermined **picture** resolution; said **imaging** apparatus characterised by: an **image** buffer (18) for storing digital **image** signals corresponding to blocks of **picture** elements; digital processing means (22) for transforming blocks of stored digital **image** signals into corresponding sets of transform coefficient signals and for encoding the transform coefficient signals into a stream of **compressed** high resolution **image** signals corresponding to the predetermined **picture** resolution, said digital processing means (22) further responsive to said digital **image** signals for generating uncompressed reduced resolution **image** signals corresponding to a **picture** resolution lower than said predetermined resolution but containing enough information to provide sufficient **quality** to identify the subject matter of the still **image** in a thumbnail format; means (40) for generating a multi-format **image** file (Figs. 2A,2B) representative of plural resolutions of the still **image** from the combination of said **compressed** high resolution **image** signals and said uncompressed reduced resolution **image** signals, said combination forming a singular file structure in which said uncompressed reduced resolution **image** signals occupy a defined file area in relation to said digital **image** signals and are commonly accessible therewith for transmission, display and processing without need for decompression; and means (22,26) for storing the **image** file in said digital memory (24)...

...Abstract (Equivalent): The electronic still **camera** employs **digital** processing of **image** signals corresp. to a still **image** and storage of the processed **image** signals in a removable static random access

memory card. An **image** sensor is exposed to **image** light and the resultant analog **image** information is converted to digital **image** signals. A control processor controls the exposure section and the A/D converter, delivering the digital signals to a multi-**image** buffer at a **rate** commensurate with **normal** operation of the camera...

...stored digital signals, transforming blocks of the digital signals and encoding the signals into a **compressed** stream of processed **image** signals, which are downloaded to the memory card. The digital processor operates at a throughput **rate** different than the input **rate** for better **image** capture and optimum utilisation of the camera...

...Title Terms: **IMAGE** ;

?

32/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014111465 **Image available**
WPI Acc No: 2001-595677/200167
XRPX Acc No: N01-443956

Digital camera has controller which electronically controls memory and lenses, such that lenses move to initialization position as start-up process is performed when image recording mode is determined
Patent Assignee: FUJI PHOTO FILM CO LTD (FUJF); INOUE M (INOUE-I); ORIMOTO M (ORIM-I); SUEMOTO K (SUEM-I)

Inventor: INOUE M ; ORIMOTO M; SUEMOTO K
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20010009443	A1	20010726	US 2001768253	A	20010125	200167 B
JP 2001208952	A	20010803	JP 200016322	A	20000125	200167

Priority Applications (No Type Date): JP 200016322 A 20000125

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20010009443	A1	21	H04N-005/225	
JP 2001208952	A	11	G02B-007/08	

Digital camera has controller which electronically controls memory and lenses, such that lenses move to initialization position...

Inventor: INOUE M ...

Abstract (Basic):

... An INDEPENDENT CLAIM is also included for a method for activating a digital camera .
...

... Digital camera .
...

...Shortens start-up time of camera by effectively reducing initialization processes of digital camera , thus performs photography and recording immediately without missing a photography opportunity...

...The figure shows an exploded perspective view of a lens of a digital camera .

...International Patent Class (Main): H04N-005/225

32/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014084274 **Image available**
WPI Acc No: 2001-568488/200164
XRPX Acc No: N01-423512

Digital camera has drive controller that moves initialization position of focus lens group and zoom lens group if voltage amount when driving lens cover drive motor and zoom motor is below predetermined value

Patent Assignee: FUJI PHOTO FILM CO LTD (FUJF); INOUE M (INOUE-I); SUEMOTO K (SUEM-I)
Inventor: INOUE M ; SUEMOTO K

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001208956	A	20010803	JP 200016321	A	20000125	200164 B
US 20020018140	A1	20020214	US 2001768507	A	20010125	200214

Priority Applications (No Type Date): JP 200016321 A 20000125

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 2001208956	A		15	G02B-007/10	
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US 20020018140	A1			H04N-005/232	
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Digital camera has drive controller that moves initialization position of focus lens group and zoom lens group...

Inventor: INOUE M ...

Abstract (Basic):

... The digital camera has a drive controller that simultaneously drives a zoom motor and a focus motor, and...
... drive motor opens and closes a lens cover that protects the lens surface of the digital camera. The focus lens group and zoom lens group are held inside an expandable lens barrel...

... Digital camera .

...International Patent Class (Main): H04N-005/232

32/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

012057008 **Image available**

WPI Acc No: 1998-473919/199841

XRPX Acc No: N98-370220

Digital camera - has microcomputer which inverts image signal to be displayed on LCD display, and which stores image signal in IC card without inverting image signal

Patent Assignee: MINOLTA CAMERA KK (MIOC); INOUE M (INOUE-I); KIDO T (KIDO-I); TANAKA T (TANA-I); YAGURA H (YAGU-I); MINOLTA CO LTD (MIOC)

Inventor: INOUE M ; KIDO T; TANAKA T; YAGURA H

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10200842	A	19980731	JP 97957	A	19970107	199841 B
US 20020191096	A1	20021219	US 983793	A	19980107	200303
US 6630958	B2	20031007	US 983793	A	19980107	200374

Priority Applications (No Type Date): JP 97957 A 19970107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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JP 10200842	A		18	H04N-005/765	
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US 20020191096	A1			H04N-005/222	
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US 6630958	B2			H04N-005/222	
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Digital camera -

Inventor: INOUE M ...

International Patent Class (Main): H04N-005/222 ...

... H04N-005/765

International Patent Class (Additional): H04N-005/225 ...

... H04N-005/781

32/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent.WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010085656 **Image available**
WPI Acc No: 1994-353369/199444
Related WPI Acc No: 1994-352071; 1994-353363
XRPX Acc No: N01-439625

Electronic filing system for digital still camera , senses the
photographic image recorded on film and retrieves photographic
information, based on which information is recorded on disk

Patent Assignee: MINOLTA CAMERA KK (MIOC); MINOLTA CO LTD (MIOC)
Inventor: INOUE M ; ISHII T; MAEDA Y; NANBA K; YAGURA H; YAMADA T
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 6276473	A	19940930	JP 9385298	A	19930319	199444 B
US 6249644	B1	20010619	US 94214707	A	19940318	200167
JP 3198712	B2	20010813	JP 9385298	A	19930319	200148

Priority Applications (No Type Date): JP 9385298 A 19930319; JP 9385296 A
19930319; JP 9385297 A 19930319

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 6276473	A		38	H04N-005/85	
US 6249644	B1		58	H04N-005/76	
JP 3198712	B2		40	H04N-005/85	Previous Publ. patent JP 6276473

Electronic filing system for digital still camera , senses the
photographic image recorded on film and retrieves photographic
information, based on which information...

Inventor: INOUE M ...

Abstract (Basic):

... For camera system e.g. digital still/video camera system
used in producing photographic prints, albums...

International Patent Class (Main): H04N-005/76 ...

... H04N-005/85

...International Patent Class (Additional): H04N-005/253 ...

... H04N-005/781 ...

... H04N-005/91

32/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent.WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010085650 **Image available**
WPI Acc No: 1994-353363/199444
Related WPI Acc No: 1994-352071; 1994-353369
XRPX Acc No: N01-439625

Electronic filing system for digital still camera , senses the
photographic image recorded on film and retrieves photographic
information, based on which information is recorded on disk

Patent Assignee: MINOLTA CAMERA KK (MIOC); MINOLTA CO LTD (MIOC)

Inventor: INOUE M ; ISHII T; MAEDA Y; NANBA K; YAGURA H; YAMADA T

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 6276466	A	19940930	JP 9385297	A	19930319	199444 B
US 6249644	B1	20010619	US 94214707	A	19940318	200167
JP 3334229	B2	20021015	JP 9385297	A	19930319	200275

Priority Applications (No Type Date): JP 9385297 A 19930319; JP 9385296 A 19930319; JP 9385298 A 19930319

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 6276466	A		38	H04N-005/76	
US 6249644	B1		58	H04N-005/76	
JP 3334229	B2		38	H04N-005/76	Previous Publ. patent JP 6276466

Electronic filing system for digital still camera , senses the photographic image recorded on film and retrieves photographic information, based on which information...

Inventor: INOUE M ...

...Abstract (Basic): USE - For camera system e.g. digital still/video camera system used in producing photographic prints, albums...

International Patent Class (Main): H04N-005/76

International Patent Class (Additional): H04N-001/387 ...

... H04N-005/253

32/3,K/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

010084358 **Image available**

WPI Acc No: 1994-352071/199444

Related WPI Acc No: 1994-353363; 1994-353369

XRPX Acc No: N01-439625

Electronic filing system for digital still camera , senses the photographic image recorded on film and retrieves photographic information, based on which information is recorded on disk

Patent Assignee: MINOLTA CAMERA KK (MIOC); MINOLTA CO LTD (MIOC)

Inventor: INOUE M ; ISHII T; MAEDA Y; NANBA K; YAGURA H; YAMADA T

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 6274580	A	19940930	JP 9385296	A	19930319	199444 B
US 6249644	B1	20010619	US 94214707	A	19940318	200167

Priority Applications (No Type Date): JP 9385296 A 19930319; JP 9385297 A 19930319; JP 9385298 A 19930319

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 6274580	A		38	G06F-015/62	
US 6249644	B1		58	H04N-005/76	

Electronic filing system for digital still camera , senses the photographic image recorded on film and retrieves photographic information, based on which information...

Inventor: INOUE M ...

...Abstract (Basic): USE - For camera system e.g. digital still/video camera system used in producing photographic prints, albums...

...International Patent Class (Main): H04N-005/76
...International Patent Class (Additional): H04N-005/84

32/3,K/7 (Item 7 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

06579940 **Image available**
DIGITAL CAMERA

PUB. NO.: 2000-165731 [JP 2000165731 A]
PUBLISHED: June 16, 2000 (20000616)
INVENTOR(s): NARUTO HIROKAZU
SHINKAWA KATSUHITO
INOUE MANABU
APPLICANT(s): MINOLTA CO LTD
APPL. NO.: 10-339832 [JP 98339832]
FILED: November 30, 1998 (19981130)

DIGITAL CAMERA

INVENTOR(s): NARUTO HIROKAZU
SHINKAWA KATSUHITO
INOUE MANABU
INTL CLASS: H04N-005/225 ; G06F-003/08; G06F-013/12; H04N-005/232

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **digital camera** which can be connected with a computer without using any cable to be operated as the peripheral equipment of the computer.

SOLUTION: This **digital camera** is equipped with a storage medium and constituted so as to be attachable and detachable for an extended slot DB of a computer 19. This **digital camera** is provided with a storage medium mounting part 17 constituted so that the storage medium...

... the storage medium is mounted on the storage medium loading part 17 and that the **digital camera** is mounted on the extended slot DB.

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32/3,K/8 (Item 8 from file: 347)
DIALOG(R)File 347:JAPIO
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06464551 **Image available**
DIGITAL CAMERA

PUB. NO.: 2000-050126 [JP 2000050126 A]
PUBLISHED: February 18, 2000 (20000218)
INVENTOR(s): KIDO TOSHIHITO
SHINKAWA KATSUHITO
INOUE MANABU
APPLICANT(s): MINOLTA CO LTD
APPL. NO.: 10-214565 [JP 98214565]
FILED: July 29, 1998 (19980729)

DIGITAL CAMERA

INVENTOR(s): KIDO TOSHIHITO
SHINKAWA KATSUHITO
INOUE MANABU
INTL CLASS: H04N-005/225 ; H04N-005/907 ; H04N-005/91

32/3,K/9 (Item 9 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

06414051 **Image available**
DIGITAL CAMERA

PUB. NO.: 11-355709 [JP 11355709 A]
PUBLISHED: December 24, 1999 (19991224)
INVENTOR(s): INOUE MANABU
SHINKAWA KATSUHITO
APPLICANT(s): MINOLTA CO LTD
APPL. NO.: 10-156071 [JP 98156071]
FILED: June 04, 1998 (19980604)

DIGITAL CAMERA

INVENTOR(s): INOUE MANABU
SHINKAWA KATSUHITO
INTL CLASS: H04N-005/91 ; H04N-005/225 ; H04N-005/262 ; H04N-009/73 ;
H04N-009/79

ABSTRACT

PROBLEM TO BE SOLVED: To obtain a **digital camera** that can record image data with high quality without missing a shutter chance.
SOLUTION: A total control section of the **digital camera** executes image fetch processing as follows: in the step S1201, whether or not display for ...

32/3,K/10 (Item 10 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

06413970 **Image available**
DIGITAL CAMERA

PUB. NO.: 11-355628 [JP 11355628 A]
PUBLISHED: December 24, 1999 (19991224)
INVENTOR(s): INOUE MANABU
SHINKAWA KATSUHITO
APPLICANT(s): MINOLTA CO LTD
APPL. NO.: 10-163499 [JP 98163499]
FILED: June 11, 1998 (19980611)

DIGITAL CAMERA

INVENTOR(s): INOUE MANABU
SHINKAWA KATSUHITO
INTL CLASS: H04N-005/225 ; H04N-005/235

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **digital camera** applicable to various

purposes.
SOLUTION: At the time of LF-State=1 (using a display...

32/3,K/11 (Item 11 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

06404683 **Image available**
DIGITAL CAMERA

PUB. NO.: 11-346338 [JP 11346338 A]
PUBLISHED: December 14, 1999 (19991214)
INVENTOR(s): **INOUE MANABU**
SHINKAWA KATSUHITO
APPLICANT(s): MINOLTA CO LTD
APPL. NO.: 10-151168 [JP 98151168]
FILED: June 01, 1998 (19980601)

DIGITAL CAMERA

INVENTOR(s): **INOUE MANABU**
SHINKAWA KATSUHITO
INTL CLASS: **H04N-005/765 ; H04N-005/781 ; H04N-005/91**

ABSTRACT

... to be connected externally and also to shorten the time required for printing.

SOLUTION: This **digital camera** is provided with a memory card that stores image data obtained by photographing. Desired image...

...data stored in the memory card. Then a printer connecting to the outside of the **digital camera** prints out the image data of the 4 frames side by side on one printer paper sheet. An entire control section provided to the **digital camera** generates a signal to attain quadripartite print based on the selected four frames of image...

32/3,K/12 (Item 12 from file: 347)
DIALOG(R)File 347:JAPIO
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05879052 **Image available**
MOVING OBJECT DETECTING DEVICE

PUB. NO.: 10-162152 [JP 10162152 A]
PUBLISHED: June 19, 1998 (19980619)
INVENTOR(s): **KENMOCHI KEIICHI**
URATA HIDEO
INOUE MASAHIRO
APPLICANT(s): MITSUBISHI HEAVY IND LTD [000620] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 08-322957 [JP 96322957]
FILED: December 03, 1996 (19961203)

INVENTOR(s): **KENMOCHI KEIICHI**
URATA HIDEO
INOUE MASAHIRO
INTL CLASS: **G06T-007/20; G06T-001/00; G06T-007/00; G08G-001/04; H04N-007/18**

ABSTRACT

...delta.t, an A/D converter 3, which converts the output signal of the TV camera 1 into digital image data, and image storage unit 4, which stores the digital image data obtained by...

32/3,K/13 (Item 13 from file: 347)

DIALOG(R)File 347:JAPIO

(c) 2004 JPO & JAPIO. All rts. reserv.

05796809 **Image available**

DIGITAL CAMERA

PUB. NO.: 10-079909 [JP 10079909 A]

PUBLISHED: March 24, 1998 (19980324)

INVENTOR(s): **INOUE MANABU**

MIYATA AKIO

YAKURA KOICHI

APPLICANT(s): MINOLTA CO LTD [000607] (A Japanese Company or Corporation),
JP (Japan)

APPL. NO.: 08-233481 [JP 96233481]

FILED: September 03, 1996 (19960903)

DIGITAL CAMERA

INVENTOR(s): **INOUE MANABU**

MIYATA AKIO

YAKURA KOICHI

INTL CLASS: H04N-005/765 ; H04N-005/781 ; H04N-005/76 ; H04N-005/907

32/3,K/14 (Item 14 from file: 347)

DIALOG(R)File 347:JAPIO

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05796784 **Image available**

DIGITAL CAMERA

PUB. NO.: 10-079884 [JP 10079884 A]

PUBLISHED: March 24, 1998 (19980324)

INVENTOR(s): **INOUE MANABU**

MIYATA AKIO

YAKURA KOICHI

APPLICANT(s): MINOLTA CO LTD [000607] (A Japanese Company or Corporation),
JP (Japan)

APPL. NO.: 08-233475 [JP 96233475]

FILED: September 03, 1996 (19960903)

DIGITAL CAMERA

INVENTOR(s): **INOUE MANABU**

MIYATA AKIO

YAKURA KOICHI

INTL CLASS: H04N-005/232 ; G03B-015/05; G03B-017/14; G03B-017/18;
H04N-005/225

ABSTRACT

...SOLUTION: The digital camera consists of a camera main body part 2 and the image-pickup part 3 which...

?

File 2:INSPEC 1969-2004/Jul W1
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File 6:NTIS 1964-2004/Jul W2
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File 34:SciSearch(R) Cited Ref Sci 1990-2004/Jul W1
(c) 2004 Inst for Sci Info
File 35:Dissertation Abs Online 1861-2004/May
(c) 2004 ProQuest Info&Learning
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(c)2004 Japan Science and Tech Corp(JST)
File 95:TEME-Technology & Management 1989-2004/Jun W1
(c) 2004 FIZ TECHNIK
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jun
(c) 2004 The HW Wilson Co.
File 144:Pascal 1973-2004/Jul W1
(c) 2004 INIST/CNRS
File 239:Mathsci 1940-2004/Aug
(c) 2004 American Mathematical Society
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
(c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2004/Jul 12
(c) 2004 ProQuest Info&Learning
File 248:PIRA 1975-2004/Jun W4
(c) 2004 Pira International

Set	Items	Description
S1	3697082	IMAG? OR PHOTOS OR PHOTO OR PHOTOGRAPH? OR PICTURE?
S2	133587	PIXEL? OR PEL OR PICTURE(3N)ELEMENT?
S3	320805	(COMPRESS? OR SHRINK? OR ZIP?? OR ZIPPING OR SUPPRESS?) AND (RATE OR RATES OR RATING OR SETTING? OR RATIO?)
S4	61193	CURSOR? OR POINTER? OR ARROW??
S5	3375104	FINE OR NORMAL OR BASIC
S6	65620	S2 AND (AMOUNT OR NUMBER? OR SUM OR TOTAL OR AREA OR REGION OR COMBINATION OR SIZE OR DIMENSION?)
S7	11440	(SELECT? OR IDENTIF? OR CHOOS? OR MARKING OR CLICK) AND S6
S8	18077	DIGITAL(3N)CAMERA??
S9	91781	(CHANG? OR MODIF? OR EDIT? OR SWITCH? OR ALTER? OR ADJUST?) AND S3
S10	219903	S1 AND QUALITY
S11	24224	AU=(INOUE, M? OR NISHIURA. Y? OR INOUE M? OR NISHIURA Y?)
S12	71	S8 AND S9
S13	12	S12 AND S6
S14	3	S13 AND PY=2001:2004
S15	9	S13 NOT S14
S16	5	RD S15 (unique items)
S17	588	S6 AND S9
S18	1	S17 AND BEFORE AND (TAKING OR SHOOTING)(3N)S1
S19	1	S18 NOT S15
S20	40	S4 AND S7
S21	9	S20 AND CAMERA??
S22	9	S21 NOT (S13 OR S18)
S23	6	S22 AND PY=2001:2004
S24	3	S22 NOT S23

S25	3	RD S24 (unique items)
S26	167	S10 AND S5 AND S8
S27	12	S26 AND COMPRESS?
S28	166	S26 NOT (S18 OR S15 OR S21)
S29	64	S28 AND PY=2001:2004
S30	102	S28 NOT S29
S31	18	S30 AND (STORAGE OR MEMORY OR STORE OR STORING)
S32	17	RD S31 (unique items)
S33	1587	(FUJI OR KODAK OR CANON) AND S8
S34	1	S33 AND S9
S35	0	S34 NOT (S26 OR S18 OR S15 OR S21)
S36	11	S11 AND S8
S37	11	S36 NOT (S26 OR S18 OR S15 OR S21)
S38	6	S37 AND PY=2001:2004
S39	5	S37 NOT S38
S40	4	RD S39 (unique items)

16/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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03911829 INSPEC Abstract Number: B91046235

Title: Coding characteristics of the pixel -adaptive DPCM utilizing the variable-length-codes

Author(s): Saigusa, M.; Arazaki, S.; Hashiguchi, S.; Ohki, M.; Uchiyama, M.; Itoh, F.

Author Affiliation: Fac. of Eng., Yamanashi Univ., Kofu, Japan

Journal: IEEE Transactions on Consumer Electronics vol.37, no.1 p. 74-80

Publication Date: Feb. 1991 Country of Publication: USA

CODEN: ITCEDA ISSN: 0098-3063

U.S. Copyright Clearance Center Code: 0098-3063/91/0200-0074\$01.00

Language: English

Subfile: B

Title: Coding characteristics of the pixel -adaptive DPCM utilizing the variable-length-codes

Abstract: The coding characteristics of a **modified** DPCM (differential pulse code modulation) method for data **compression** of still images for **digital** still **cameras** are described. In **pixel** adaptive DPCM, the **pixels** are classified into eight groups according to the magnitude of the prediction error of preceding **pixels**, and the prediction error signals of each group are quantized using eight nonlinear quantizers, each of which is designed optimally to each group. The performance of the **pixel** adaptive DPCM can be improved by utilizing the variable bit- **rate** scheme. It is shown in an example that the signal-to-noise **ratio** can be improved to 48 dB by 6 dB at 3.0 b/ **pixel**, that this improvement is due to the relief of the slope overloading at the edges...

... the spectrum of the coding errors is distributed uniformly in the 2-D spatial frequency **region** .

...Descriptors: data **compression** ;

...Identifiers: data **compression** ; ...

... **digital** still **cameras** ; ...

... **pixel** adaptive DPCM...

...variable bit- **rate** ; ...

...signal-to-noise **ratio** ;

16/3,K/2 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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05857396 E.I. No: EIP01276564291

Title: Transpose memory for video rate JPEG compression on highly parallel single-chip digital CMOS imager

Author: Hsieh, J.Y.F.; Van Der Avoird, A.; Kleihorst, R.P.; Meng, T.H.Y.

Corporate Source: Philips National Research Laboratory, Eindhoven, Netherlands

Conference Title: International Conference on Image Processing (ICIP 2000)

Conference Location: Vancouver, BC, Canada Conference Date: 20000910-20000913

E.I. Conference No.: 58177
Source: IEEE International Conference on Image Processing v 3 2000. p
102-105 (IEEE cat n 00CB37101)
Publication Year: 2000
CODEN: 85QTAW
Language: English

Title: Transpose memory for video rate JPEG compression on highly parallel single-chip digital CMOS imager

Abstract: A Transpose Switch Matrix Memory (TSMM) is proposed to enable a highly parallel single-chip CMOS sensor/image processor, Xetal, developed at Philips to perform JPEG **compression** at video **rate** (30 frames per second, fps) at an image **dimension** of 640 multiplied by 480 **pixels**. The integrated solution consists of 320 processing elements and 80 TSMM's, operates at 16 MHz clock **rate** and 3.3V supply voltage, and is designed for fabrication at 0.25 micron technology...

...Xetal architecture is documented in left bracket 1 right bracket and is capable of performing **pixel** level image processing such as fixed pattern noise (FPN) correction, defective **pixel** concealment, Bayer pattern filtering, RGB-YUV conversion, auto white balancing, and auto exposure control. The...

Descriptors: Image **compression**; CMOS integrated circuits; Video **cameras**; **Digital** image storage; Image coding

Identifiers: Transpose **switch** matrix memory; Fixed pattern noise; Defective **pixel** concealment; Bayer pattern filtering

16/3,K/3 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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03205007 JICST ACCESSION NUMBER: 97A0553712 FILE SEGMENT: JICST-E

Fujics digital camera, **DS-300"**.

KONDO MAKOTO (1)

(1) Dobafoto

Shashin Kogyo(Photographic Industries), 1997, VOL.55,NO.6, PAGE.40-41,15,
FIG.7

JOURNAL NUMBER: F0318AAV ISSN NO: 0371-0106 CODEN: SHKOA

UNIVERSAL DECIMAL CLASSIFICATION: 771.3/.4

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

Fujics digital camera, **DS-300"**. ...

ABSTRACT: This is a report on the trial use of the above **digital camera**. It is pointed out that price **setting** is drastic from the viewpoint of the function which has 1.4 million **picture elements**. Photograph quality of printer output image (**L size**) is not distinguishable from that of silver salt photograph. Coloring is so simple that **adjustment** of color tone is almost unnecessary except for **adjustment** of brightness. This camera has multi-functions such as digital zoom, picture quality, **number of picture element**, and white balance. It is a "can do everything" camera with excellent cost performance.

...**DESCRIPTORS:** **pixel**; ...

...image **compression**;

16/3,K/4 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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00883451 E95056509006

Design of a high resolution programmable digital camera
(Entwurf einer programmierbaren digitalen Kamera mit hoher Aufloesung)
Pontifex, B; Poon, S; Jaggi, B
Xillix Technol., Vancouver, CDN
Image Acquisition and Sci. Imaging Syst., San Jose, USA, Feb 9-10, 19941994
Document type: Conference paper Language: English
Record type: Abstract

Design of a high resolution programmable digital camera

ABSTRACT:

Full frame, scientific grade, charge coupled devices with greater than 1k by 1k **pixels** are becoming commonly used in quantitative imaging. These devices typically have high spatial and photometric...

...of view, and good photometric linearity with negligible geometric distortion. However, due to the large **number** of **pixels** and the stringent noise requirements of quantitative systems, the frame **rates** of these cameras are usually limited. Therefore, a **digital camera** has been designed based on a 1317 by 1035 **pixel**, full frame, CCD which offers the large **area**, high density sampling but with the options of programmable sub- **area** scanning and multiple independent x and y binning and programmable gain and offset. The sub- **area** scanning and binning can be used to increase the effective frame **rate** of the device for such applications as fast focusing and object location. The binning also...

...low light level applications such as fluorescence microscopy. The programmability of this camera permits the **switching** between the various clocking modes within a single frame time. Hence, the image can be auto-focused in sub- **area** scanning mode and then within in a single frame time the full frame image can...

DESCRIPTORS: CCD IMAGE SENSORS; FLUORESCENCE; MICROSCOPY; RESOLUTION; AUTOFOCUS; DATA **COMPRESSION**; IMAGE SEGMENTATION; IMAGE SEQUENCES; IMAGE QUALITY; PROGRAMMABLE CONTROL; CLOCK GENERATORS; LIGHT INTENSITY; SENSITIVITY; FLUORESCENCE MICROSCOPY

16/3,K/5 (Item 1 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily
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05562274

From Pause to Play: Digital Video Gets Real
Greenberg, Daniel
Washington Post, Sec WW, p 44, col 2
May 28, 1999
ISSN: 0190-8286 NEWSPAPER CODE: WP
DOCUMENT TYPE: Feature; Newspaper
LANGUAGE: English RECORD TYPE: ABSTRACT
LENGTH: Long (18+ col inches)

ABSTRACT: You know you should have slayed that dragon with some savage video **editing**. But slicing and dicing video required an absurd **amount** of camcorder-to-VCR shuffling, and early computer video- **editing** packages were hopelessly cumbersome. The simplest option for a digital-video

newcomer is an external device like Dazzle's Digital Video Creator (Win 95/98, \$249), a paperback- **size** box that connects to a parallel or Universal Serial Bus port. (Get the USB version...

...to your hard drive. Then you can use its included software to crop the footage, **edit** clips together and add titles, transitional effects and other effects. You can then pipe the...

...to video or to special formats for use in e-mail or on the Web, **adjusting compression settings** to balance video quality and disk space. The finished product looks good but slightly washed...

...more in return. It replaces your PC's old video card, adding not just video **editing** but 3-D acceleration, DVD decoding, TV-on-PC playback, PC output to TV and...

...graphical goodies. The Marvel can digitize video with large frames, up to 704 x 486 **pixels**, so it's great for full-screen video playback. **Editing** comes courtesy of the more powerful Avid Cinema software. But the Marvel requires you to...

...DESCRIPTORS: **Digital cameras** ; ...

... **Editing**
?

19/3,K/1 (Item 1 from file: 483)
DIALOG(R) File 483:Newspaper Abs Daily
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07433523 SUPPLIER NUMBER: 433640761
A Shutterbug's Guide to Meting Out the Megapixels
Berger, Ivan
New York Times, p G.4
Oct 30, 2003
ISSN: 0362-4331 NEWSPAPER CODE: NYT
DOCUMENT TYPE: Feature; Newspaper article
LANGUAGE: English RECORD TYPE: ABSTRACT

ABSTRACT: Digital cameras offer a choice of file formats; your choice affects the **number** and quality of images a card can hold. Just about all digital cameras can save images as JPEG (or JPG) files, which **compress** the image data to save memory space but lose some picture quality in the process...

...Group, which devised it.) Both the memory savings and quality loss vary depending on the **amount** of **compression**, so most cameras offer a choice of **compression** levels, typically described as small, medium and large, or fine, standard and economy. A 16...

...which contains all the details the image sensor picked up, unaffected by the camera's **settings** for white balance, exposure compensation and other factors. These files require a bit more work...

...RAW is a nonstandard file format, differing from one make of camera to another. To **edit** RAW files, you may need the **editing** software supplied with the camera, or plug-ins for programs like Adobe Photoshop. Experts suggest...

...count you can afford, and saving your photos as JPEG files unless you plan to **edit** them. That will cut the time your camera spends storing one **image before shooting** the next, and will leave room for more shots on its memory card. A high megapixel count and **compressed** files will help ensure that you'll be ready when you see something worth shooting. If you start to run out of memory **before** you run out of picture opportunities, using fewer **pixels** or a coarser JPEG **setting** will let you slip a few more pictures in. Better to get the shot but...
?

25/3,K/1 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1494157 NTIS Accession Number: NTN90-0166

Measuring Airflow With Digital Holographic Interferometry: Pressures on surfaces of airfoils are computed from interference fringes

(NTIS Tech Note)

National Aeronautics and Space Administration, Washington, DC.

Corp. Source Codes: 011249000

Feb 90 1p

Languages: English

Journal Announcement: GRAI9010

FOR ADDITIONAL INFORMATION: Detailed information about the technology described may be obtained by ordering the NTIS report, NTIS order number, N87-24681, price code, A02.

NTIS Prices: Not available NTIS

... the analysis of holographic interferometric images of flow about an airfoil. Operating semiautomatically, the system **identifies** , counts, and labels interference fringes, then processes the distances between fringes into the distribution of...

... favorably with those obtained by manual analysis and by probe measurements of pressure. A video **camera** views the interferometric hologram. The video image has a resolution of 512x512 **picture elements** , the intensity of each of which is digitized to 8 bits. The digitized image is...

... in real time. A joystick control device is used for interactive input. It controls two **cursors** , which can be used in a **number** of operating modes. A color printing system augments the color monitor. The system uses computer...

25/3,K/2 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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03351845 Genuine Article#: NY306 No. References: 12

Title: A SIMPLE ALGORITHM TO MEASURE THE VOLUME-WEIGHTED AND NUMBER-WEIGHTED MEAN VOLUME OF PARTICLES

Author(s): LAROYE GJ; GRANT K

Corporate Source: ONTARIO CANC INST,DEPT ONCOL PATHOL,500 SHERBOURNE

ST/TORONTO M4X 1K9/ON/CANADA/; ONTARIO CANC INST,DEPT BIOMED

ENGN/TORONTO M4X 1K9/ON/CANADA/

Journal: JOURNAL OF MICROSCOPY-OXFORD, 1994, V175, JUL (JUL), P70-83

ISSN: 0022-2720

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Title: A SIMPLE ALGORITHM TO MEASURE THE VOLUME-WEIGHTED AND NUMBER-WEIGHTED MEAN VOLUME OF PARTICLES

Abstract: An algorithm is presented which offers an alternative approach for measuring volume- and **number** -weighted mean volume and standard deviation of particles. Using a computer-assisted manual method the...

...the object and intersecting the profile periphery, measurement of their lengths, and measurement of the **area** of the transect required for estimating the standard deviation of the volume-weighted mean volume. By first tracing manually the outline of the periphery of the object

with a **cursor** , on a magnetic tablet or on an image acquired into the computer with a video **camera** , the location of all **pixels** of the periphery is registered and the **area** of the transect is measured concurrently. The computer is informed of the coordinates of the **selection** point in the uniform random (UR) sampling grid by clicking the **cursor** . All ensuing operations are automatic. In the case of isotropic UR (IUR) sections the algorithm...

...random linear probes between the sampling point and the object profile periphery emanating from this **selection** point, radiating at angular intervals of 29-30 degrees to the periphery. In the case...

...individual random linear probe. As the periphery is traced, the algorithm can automatically determine the **area** of the cross-section of the object, from which the standard deviation of the volume...

...calculated. Some elements of the above algorithm are also used for the measurement of the **number** -weighted mean volume. The latter procedure is facilitated using an acoustic vertical depth monitor attached...

...Identifiers--STEREOLOGICAL ESTIMATION; IMAGE-ANALYSIS; NUCLEAR **SIZE** ; DISECTOR; **SELECTOR**

Research Fronts: 92-1558 002 (UNBIASED STEREOLOGICAL ESTIMATION; **NUMBER** OF AXOSPINOUS SYNAPSES; RAT OLFATORY-BULB; NUCLEAR VOLUME; COUNTING NEURONS; QUANTITATIVE MORPHOLOGY)

25/3,K/3 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01928504 JICST ACCESSION NUMBER: 93A0997454 FILE SEGMENT: JICST-E
Measurement of motion and deformation with a high-speed video camera .

ETO TAKEHARU (1); TAKEHARA KOSEI (1)

(1) Kinki Univ.

Nippon Kikai Gakkai Supotsu Kogaku Shinpojiumu Koen Ronbunshu, 1993,

VOL.1993, PAGE.82-85, FIG.7

JOURNAL NUMBER: L1198AAY

UNIVERSAL DECIMAL CLASSIFICATION: 616-073:612-087

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

Measurement of motion and deformation with a high-speed video camera .

ABSTRACT: The world-fastest video- **camera** and an automatic particle-tracking algorithm both developed by the authors are applied to analyze motion and deformation of ankles of a runner. The framerate of the video- **camera** is 4,500pps for normal mode with 256(H)*256(V) **pixels** . The light-sensitivity is very high because of the attached microchannel-plate-type image-intensifier...

...theory to predict velocity field in the next stage and the Chai-square-test to **identify** the same particles on the current and the next images. The example application has proved...

...in the field of Sport Engineering. They are planned to apply to analyze motion of **arrows** of archery. (author abst.)

DESCRIPTORS: video **camera** ;

BROADER DESCRIPTORS: **camera** ; ...

...body **region**

32/3,K/1 (Item 1 from file: 2)
DIALOG(R) File 2:INSPEC
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6301616 INSPEC Abstract Number: B1999-09-6135-052, C1999-09-5260B-063

Title: Restoration and enhancement of images captured by a digital camera
Author(s): Tuijn, C.; Cliquet, W.
Author Affiliation: GS/EPS/R&D, Agfa-Gevaert N.V., Mortsel, Belgium
Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference
Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.3648 p.206-13
Publisher: SPIE-Int. Soc. Opt. Eng,
Publication Date: 1998 **Country of Publication:** USA
CODEN: PSISDG **ISSN:** 0277-786X
SICI: 0277-786X(1998)3648L:206:REIC;1-Z
Material Identity Number: C574-1999-105
U.S. Copyright Clearance Center Code: 0277-786X/98/\$10.00
Conference Title: Color Imaging: Device-Independent Color, Color Hardcopy, and Graphic Arts IV
Conference Sponsor: SPIE: Soc. Imaging Sci. & Technol
Conference Date: 26-29 Jan. 1999 **Conference Location:** San Jose, CA, USA
Language: English
Subfile: B C
Copyright 1999, IEE

Title: Restoration and enhancement of images captured by a digital camera

Abstract: The success of the digital cameras in the consumer market can no longer be ignored. An obvious advantage over the conventional photography is the fact that the images taken by a digital camera are readily available. Another important advantage is that there is no additional cost in taking pictures since the images are recorded on magnetic media that can be erased and re-used. For output, there are several possibilities. Today, the only practical solution is to print the images on a desktop color printer (typically based on inkjet technology). Although digital printing services to output batches of digital images on high quality, photographic paper are already available, they still are quite expensive. We claim that once these services become more affordable for the consumer, the digital photography will start to conquer the market of the conventional photography. This paper will primarily focus on the key digital color image processing software technologies that determine the quality of digital photography. An overview is given of basic image restoration and image enhancement techniques that have to be adapted and optimized in order to cope with the specific challenges of digital photography in publishing applications. Color plane interpolation and artifact removal are examples of basic image restoration techniques to compensate for known degradation phenomena occurring in digital color image sensors. Also color management can be seen as an important color image restoration process to get predictable and consistent color image reproduction. Afterwards, spatial, tonal and color image enhancement techniques are applied to make the images more pleasing and fit for use in publishing applications. In addition to the image processing needs, the importance of open. image storage, communication and color management software standards as a key success factor for real-life digital photography systems will also be discussed.

Descriptors: colour photography ; ...

... image colour analysis...

... **image** enhancement...

... **image** restoration
Identifiers: **images** restoration...

... **images** enhancement...

... **digital** camera ; ...
... **digital** cameras ; ...

...digital color **image** processing software

32/3,K/2 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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04366746 E.I. No: EIP95122937719

Title: Geometric processing of Priroda MK-4 spaceborne multispectral images
Author: Kostka, Robert; Sharov, Aleksey
Corporate Source: Graz Univ. of Technology, Graz, Austria
Conference Title: Digital Photogrammetry and Remote Sensing '95
Conference Location: St. Petersburg, Russia Conference Date: 19950625
E.I. Conference No.: 22423
Source: Proceedings of SPIE - The International Society for Optical Engineering v 2646 1995. Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. p 131-142
Publication Year: 1995
CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-2019-0
Language: English

Title: Geometric processing of Priroda MK-4 spaceborne multispectral images
...Abstract: cost-efficiency of photogrammetric mapping by means of spaceborne stereophotographs heavily depends on the geometric **quality** of the **image**. Geometric properties are usually inhomogeneous over the **image** area and very often only a part of the satellite **image** is used for practical cartography. In many cases digital **image** processing under large magnifications is required to make full use of the information capacity of spaceborne **photographs** with high ground resolution. The present paper deals with the geometric investigation of spaceborne multispectral **images** obtained by the Russian MK-4 film camera, which is reputed as being one of the best present-day operational satellite camera systems. Since no original **photos** were at our disposal, the investigations were performed using **image** copies of the first generation in analog and - after precise digitizing - in digital form. Geometric and resolvometric properties of MK-4 **imagery** taken in different spectral bands were investigated by means of analog and digital methods under large magnifications, that is 16x, 30x, and 90x. Fragmentary **image** processing was performed to reduce the influence of different geometric distortions and to improve the accuracy of digital stereoplotting and **basic** large-scale mapping in several areas of the Austrian Alps. Planimetric and elevation accuracies achieved with MK-4 **image** copies were very satisfactory and sufficient for digital **image**-based mapping at scales of 1:50,000 and even 1:25,000. 9 Refs.

Descriptors: Photogrammetry; Space research; **Digital image storage** ; Mapping; **Cameras**
Identifiers: Digital photogrammetry; Spaceborne multispectral **images** ; Photogrammetric mapping

32/3,K/3 (Item 2 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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04329001 E.I. No: EIP95112918474
Title: Camera scanner operates in daylight conditions
Author: Wilson, Dave
Source: Design Engineering (London) Sep 1995. p 39-40
Publication Year: 1995
CODEN: DEMCBS **ISSN:** 0308-8448
Language: English

Abstract: The Imtec 'James' camera, a new camera scanner from Imtec is capable of scanning an **image** digitally and simultaneously microfilming drawings up to AO size onto aperture cards, or 35 mm toll film. Unlike existing microfilm cameras, the James camera operates in **normal** daylight conditions, a feature that enables a single camera scanning capability to be sited in...

...of 400 dpi for demanding applications, switchable to 200 dpi for increased throughput and reduced **storage** capacity.

Descriptors: Cameras; Scanning; Optical systems; Drawing (graphics); Microfilm; Computer control systems; **Image quality**; **Photographic** films; Light; Performance

Identifiers: **Digital** scanner; **Camera** scanner; Document scanner; PC motherboard

32/3,K/4 (Item 1 from file: 94)
DIALOG(R)File 94: JICST-EPlus
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00720152 JICST ACCESSION NUMBER: 89A0380448 FILE SEGMENT: JICST-E
Evaluation of coronary blood flow using digital subtraction technique and cine coronary angiography. A preliminary report.
UWATOKO MASASHI (1); MIYAGI YUTAKA (1); NOMURA MASANORI (1); SHIGA YUKIO (1); KOIKE AKIRO (1); TATEISHI REIJI (1); MITSUGUCHI FUMIHIRO (1); MANO KENJI (1); HISHIDA HITOSHI (1)
(1) Fujita-Gakuen Health Univ., School of Medicine
J Cardiol, 1988, VOL.18,NO.2, PAGE.279-290, FIG.10, REF.25
JOURNAL NUMBER: Y0264ABZ ISSN NO: 0914-5087
UNIVERSAL DECIMAL CLASSIFICATION: 616.12 616.1-07
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

ABSTRACT: To evaluate coronary circulation in ischemic heart disease, digital **image** processing with cine coronary angiography was performed. Using time-density curves obtained from individual pixels, **images** showing the distribution of contrast density and transit time were obtained. To record angiograms, contrast...
...digitized into a 512*512*8 bit matrix using a system composed of a video **camera**, an analog-to-**digital** converter, and a computer. These digitized **images** were then stored in a disk **memory**. A mask **image** was prepared before the injection of contrast medium. Subtraction was performed using the mask **image** and a series of **images** following contrast injection. The subtracted **images** were of sufficient **quality**

to permit clear observation of the individual coronary arterial branches. Time-density curves were then determined from these subtracted **images** . From these curves, time from the onset of contrast injection to its peak density(Tp...

...the attenuation factor of the curves(.TAU.) were derived. Their distributions were expressed as color **images** . Examples of a **normal** control and a case of inferior infarction were demonstrated. Blood flow function **images** with good spatial resolution were thus obtained. This method is useful for evaluating coronary blood...

...DESCRIPTORS: digital **image** ;
...BROADER DESCRIPTORS: **image** ; ...

... **image** technology...

...diagnostic **imaging** ;

32/3,K/5 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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09285599
Casio excels in 'wrist data device' market
THAILAND: REVOLUTIONARY CASIO DEVICES TO DEBUT
The Nation (XBO) 10 May 2000 ByteLine p.F2
Language: ENGLISH

...data assistant which can be worn on the wrist. The PC Unite works like a **normal** organiser that can prompt the user on appointments, telephone numbers and schedules. The Wrist Camera, which can be worn, offers up to 100 **images** and the **digital camera** has a **memory** capacity of up to 1 megabyte. Meanwhile, the Wrist Audio is a stereo which will enable users to listen up to 33 minutes of music through earphones. The sound **quality** will be that of a CD (compact disc) and will be very mobile.

PRODUCT: **Photographic Equip & Supplies**

32/3,K/6 (Item 2 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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09179576
Refined **Image Quality**
HONG KONG: NIKON TO LAUNCH **DIGITAL CAMERA**
The HongKong Standard (XKR) 14 Oct 1999 p.pc11
Language: ENGLISH

Refined **Image Quality**
HONG KONG: NIKON TO LAUNCH **DIGITAL CAMERA**

Nikon will launch the **digital camera** "the COOLPIX 800" in November 1999 in Hong Kong. It features 2x Zoom Nikkor lens, 2.11-megapixel for 1,600 x 1,200-pixel **image** , 1.8-inch liquid crystal display monitor, 8-megabyte CompactFlash card for **storage** up to 16 **images** in **normal** mode.

32/3,K/7 (Item 3 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)

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09078461

Konica: Hexanon lens offers hi-fi reproduction
JAPAN: NEW **DIGITAL CAMERA** MODEL FOR KONICA
Photo Electro News (ZCG) 05 Mar 1999 p.3-4
Language: ENGLISH

JAPAN: NEW **DIGITAL CAMERA** MODEL FOR KONICA

In April 1999, Konica <Japan> will market its Q-M200, a new 2-Mp **digital camera** model, which in order to benefit from high- **quality** CCD features, combines a Hexanon 6.9mm F/3.2 lens with a half inch CCD **imager** with 2.11 mln pixels. With a suggested price of v 89,000 the Q-M200 also includes features such as infrared active AF and eyestart, high- **quality** LCD monitor and CompactFlash **memory** card for data collection. Details are also copied from high-light to shadows with **fine** graduations, due to colour management technology.

32/3,K/8 (Item 4 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)
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06671970

Epson PhotoPC 700 enables quick prints
HONG KONG: NEW PHOTOPC 700 CAMERA FROM CANON
Asia Computer Weekly (XCF) 09 Aug 1998 P.15
Language: ENGLISH

The new PhotoPC 700 **digital camera** has been launched by Epson in Hong Kong, at a cost of HK\$ 6,000...

...Mac printer cable for printing directly and is compatible with PC usage. The PhotoPC 700 **digital camera** includes the following features: - features 60 **pictures** capture in standard mode; **fine quality** mode; super- **fine quality** mode; and panorama mode - compatibility with Epson Stylus colour inkjet printers for direct **images** printing from camera to printer - a 2" TFT LCD screen with **image** resolution at 1,280 x 960 pixels and a CCD at 1.3 mn pixels - a built-in 4MB CompactFlash internal **memory** for **images storage** - 10 cm macro close up, 2X digital zoom, forced flash - exposure and auto white balance...

32/3,K/9 (Item 5 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)
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06576722

Kodak DC210 Focuses on Good, Better, Best **Quality**
SINGAPORE: NEW KODAK DC210 CAMERA LAUNCHED
IT Times (XDM) 20 Jan 1998 P.12
Language: ENGLISH

Kodak DC210 Focuses on Good, Better, Best **Quality**

The new Kodak **Digital Science** DC210 zoom **camera** has been launched by Kodak in Singapore and costs S\$ 1,549 (US\$ 990). The DC210 is a **digital camera** that features a built-in automatic flash, 2x zoom lens, 4MB CompactFlash removable **memory** card and 1,152 x 864 pixel progressive scan

image sensor. The camera offers 3 modes of economy, **normal** and **fine**, and 2 resolution settings. The DC210 **digital camera** supports DirectFlashPix file format standard which makes digital **imaging** faster and easier. The **digital camera** is IrDA compatible where it can communicate directly to IrDA-enabled computers via infrared technology without using cables. The DC210 **digital camera** offers the following software: - Kodak Digital Science **Picture Easy** 2.0 software - Adobe PhotoDeluxe software 2.0 - Adobe PageMill software 2.0 - Windows...

32/3,K/10 (Item 6 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)
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06558656

Philips **Digital Camera** ESP2
SINGAPORE: NEW ESP2 **DIGITAL CAMERA** FROM PHILIPS
IT Times (XDM) 06 Dec 1997 P.6
Language: ENGLISH

Philips **Digital Camera** ESP2
SINGAPORE: NEW ESP2 **DIGITAL CAMERA** FROM PHILIPS

The new ESP2 **digital camera** has been launched by Philips in Singapore and costs S\$ 799. The ESP2 **digital camera** features a 1.8-inch LCD panel for viewing, with VGA **picture quality** at 640x480 pixels resolution. The **digital camera** includes a 4MB built-in **memory** that captures 100, 50 and 25 **pictures** in economy, **normal** and **fine** modes respectively. The camera comes with a macro mode for close-ups and optional accessories...

32/3,K/11 (Item 7 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)
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06366454

Canan's bag full of goodies
MALAYSIA: CANON LAUNCHED NEW **DIGITAL CAMERA**
The Star (XAT) 17 Sep 1996 InTech, P.16
Language: ENGLISH

MALAYSIA: CANON LAUNCHED NEW **DIGITAL CAMERA**

Canon Marketing (M) Sdn Bhd has introduced its first **digital camera** - PowerShot 600 retailing at RM 3,148. The new camera, targeted at small office home...

... for voice recording. It has 570,000 pixel resolution charge-coupled device (CCD) resolution and **images** are stored in joint **photographic** experts group (JPEG) format. Users can download **images** from PowerShot to a PC via its parallel printer port using the Camera Station or PC card. The Canon 4Mb detachable PC card can **store** up to 38 **normal quality images**, while the 170Mb PC card can **store** up to 1,500 **normal quality** or 2,500 economy **quality images**.

PRODUCT: Still CamerasDocument **Image** Management Software

32/3,K/12 (Item 8 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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06360390

Digital memories

JAPAN: CASIO'S NEW IMPROVED **DIGITAL CAMERA**

The Japan Times (XAO) 31 Aug 1996 P.12

Language: ENGLISH

JAPAN: CASIO'S NEW IMPROVED **DIGITAL CAMERA**

In Japan, Casio Computer has released an updated version of its original **digital camera**. This updated **digital camera** comes with a liquid-crystal display and a choice of two modes - **normal** or **fine**. With a price tag of Y 63,000, this camera offers sharper **image quality** as well as bigger **memory** capacity. Its **normal** mode allows up to 192 shots while its finer mode can handle up to 64...

PRODUCT: **Photographic Equip & Supplies**

32/3,K/13 (Item 1 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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06133232 SUPPLIER NUMBER: 59753542

Intel camera a good intro to digital

Warner, Jack

Atlanta Journal the Atlanta Constitution, p P.6

Sep 10, 2000

NEWSPAPER CODE: ATCJ

DOCUMENT TYPE: Commentary; Newspaper article

LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: top of the camera. This indicates whether the presumed subject is in focus, how many **photos** are in **memory** and whether the camera is set to make high- **quality images** (640x480 pixels) or **normal quality** (320x240). As a result, the Intel camera can hold up to 128 high- **quality images**. There is no way, of course, to view and selectively delete **images** from **memory** when the camera isn't connected to the computer.

DESCRIPTORS: **Digital cameras**

32/3,K/14 (Item 2 from file: 483)

DIALOG(R)File 483:Newspaper Abs Daily

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05562279

Picture Motion; How to shop for a 'digicam' without getting red eye

Hawk, Jim

Washington Post, Sec WW, p 40, col 3

May 28, 1999

ISSN: 0190-8286 NEWSPAPER CODE: WP

DOCUMENT TYPE: Feature; Newspaper

LANGUAGE: English RECORD TYPE: ABSTRACT

LENGTH: Medium (6-18 col inches)

Picture Motion; How to shop for a 'digicam' without getting red eye

ABSTRACT: **Pictures** from a digicam are also easier to blend into today's Internet world -- download directly to your computer, and you can instantly e-mail those **images** around the globe. Or you can turn those **images** back into printed **pictures**, after either manipulating them in your computer or by connecting the **digital camera** directly to a **photo - quality** printer. The digital "negatives" can be stored on your computer to save for future use, while you can reuse the camera's "film" (usually, removable solid-state **memory** chips) over and over again. Need another reason to go digital? If you own a...
...the more expensive part of a digital darkroom, where you can not only view your **images**, but also make them look better through various kinds of **photo** software. All you need now is a **digital camera** and maybe a special-purpose printer. The **digital camera** market has split into at least three segments - - with the **basic** measurement of a camera's ability being "megapixels," or how many million "pixels" or **picture** elements, the **camera's digital** eye can make out. (This is also measured in terms of the height and width in pixels of the resulting **image** -- 640 x 480, 1280 x 960 and so on.) You've got the latest and greatest two megapixel wallet-killers, one-megapixel bargains and sub-megapixel, cheap, Web-**photography** -only cameras.

DESCRIPTORS: **Digital cameras** ;

32/3,K/15 (Item 1 from file: 248)

DIALOG(R) File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00331069 Pira Acc. Num.: 10185389 Pira Abstract Numbers: 08-92-PT04158,
08-92-PU03441

Title: DIGITAL STILL PHOTOGRAPHY

Authors: Lockwood L

Source: Commun. Technol. June 1992, pp 92, 94, 96

Publication Year: 1992

Document Type: Journal Article

Language: English

Title: DIGITAL STILL PHOTOGRAPHY

...Abstract: on the NTSC system and its limitations. The move from analog to digital has improved **quality** to such an extent that newspapers are turning to **digital cameras** to provide coverage of major events. The Kodak **Digital Camera** System (DCS) is made up of either of two backs replacing the camera's standard back, a **camera** winder and **digital storage** unit capable of **storing** up to 138 uncompressed or 400 to 600 compressed **images**. **Pictures** can be transmitted via a modem over **normal** telephone lines. The colour filter array (CFA) samples **images** in a similar fashion to the human visual system. Following the example of other digital...

Trade Names: **DIGITAL CAMERA SYSTEM**

...Descriptors: **IMAGE** ; ...

... **PHOTOGRAPHY** ; ...

... **STORAGE** ;

32/3,K/16 (Item 2 from file: 248)

DIALOG(R) File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00315221 Pira Acc. Num.: 10182839 Pira Abstract Numbers: 08-92-PU01926,
08-92-PT02359

Title: DIGITAL CAMERAS CHALLENGE STILL VIDEO - AT A COST

Authors: Humphreys D

Source: Prod. J. no. 161, Apr. 1992, p. 10

ISSN: 0032-9878

Publication Year: 1992

Document Type: Journal Article

Language: English

Title: DIGITAL CAMERAS CHALLENGE STILL VIDEO - AT A COST

...Abstract: at the UK Shropshire Star is described, and the benefits compared to those afforded by **digital cameras**. In the still video camera the **images** are stored on a two inch reusable disc which can hold either 50 **pictures** in **normal** mode or 25 in better **quality** frame mode. Selected **pictures** are transmitted via a telephone to the transceiver and output to a laser printer. The Kodak **Digital Camera** System can produce **images** of higher resolution and pass the data directly to computer for digital processing. Recommendations for standards for digital **pictures** and their transmission, developed by the International Publishing Telecommunications Committee in conjunction with the American Newspaper Publishers Association, are being evaluated. Details of the Kodak **Digital Camera** System and the company's Prophecy reproduction software are given. (Short article)

...Descriptors: **DIGITAL CAMERA** ; ...

... **IMAGE** ; ...

... **IMAGE TRANSFER**...

... **STORAGE** ;

32/3,K/17 (Item 3 from file: 248)

DIALOG(R)File 248:PIRA

(c) 2004 Pira International. All rts. reserv.

00294274 Pira Acc. Num.: 41401140

Title: IMAGE COMPRESSION ALGORITHM FOR A HIGH-RESOLUTION DIGITAL STILL CAMERA

Authors: Nerheim R

Source: U. S. Govt. Reports 90, (9), 022304

Publication Year: 1990

Document Type: Journal Article

Language: English

Title: IMAGE COMPRESSION ALGORITHM FOR A HIGH-RESOLUTION DIGITAL STILL CAMERA

...Abstract: space, and is expected to capture and to transmit to earth in near real-time **images** with a **quality** approaching that associated with 35mm film. The instrument will have the same general shape and handling capabilities as a **normal** 35mm camera, and the **images** it provides will be stored in memories for subsequent computer readout. To save **storage** space, these **images** are to be compressed and reconstructed at the time of viewing. N90-14532/7/GAR.

Descriptors: Space **photography** ; ...

...Space **photography**

Section Headings: SPACE **PHOTOGRAPHY** (6053); CAMERAS AND ENLARGERS (6013)

40/3,K/1 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

04829154 JICST ACCESSION NUMBER: 96A0371402 FILE SEGMENT: JICST-E

Multipoint Teleconference System with Super High Definition Images.

WADA MINORU (1); HASHIMOTO TSUTOMU (1); TAKAHASHI TAKASHI (2); INOUE

MICHITOSHI (3)

(1) Telecommunication Satellite Corp. of Japan; (2) Kyoto Univ., Fac. of Med.; (3) Osaka Univ., Med. Sch.

Denshi Joho Tsushin Gakkai Taikai Koen Ronbunshu(Proceedings of the IEICE General Conference (Institute of Electronics, Information and Communication Engineers), 1996, VOL.1996,NO.Sogo Pt 7, PAGE.123, FIG.1, TBL.1, REF.2

JOURNAL NUMBER: G0508AEP

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3:616 621.397.004.14

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

; INOUE MICHITOSHI (3)

IDENTIFIERS: digital camera

40/3,K/2 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

04143465 JICST ACCESSION NUMBER: 99A0456541 FILE SEGMENT: JICST-E

The Co-relation between the Digital Camera RGB Picture of Leaf Coler and the Damage Leaf Percentage of the Leaf When Rice Leaf Roller Moth Spawn.

HONDA YOSHIYUKI (1); ASAYAMA TETSUYA (1); INOUE MINAKO (1); MORISHIGE HIROSHI (1); TONOGOUCHI HISAKO (2)

(1) Plant Prot. Ofg., Yamaguchi Prefect. Gov.; (2) Yamaguchinogyojimusho Kinki Chugoku Nogyo Kenkyu(Kinki Chugoku Agricultural Research), 1999, NO.97, PAGE.96-100, FIG.6, TBL.2, REF.7

JOURNAL NUMBER: S0040ABL ISSN NO: 0385-311X

UNIVERSAL DECIMAL CLASSIFICATION: 633.18 632.7+632.654.2
681.3:621.397.3

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

The Co-relation between the Digital Camera RGB Picture of Leaf Coler and the Damage Leaf Percentage of the Leaf When Rice...

HONDA YOSHIYUKI (1); ASAYAMA TETSUYA (1); INOUE MINAKO (1); MORISHIGE HIROSHI (1)

40/3,K/3 (Item 3 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2004 Japan Science and Tech Corp(JST). All rts. reserv.

02781877 JICST ACCESSION NUMBER: 96A0562134 FILE SEGMENT: JICST-E

Preface to Special Issue on Display Technologies. 4-Inch Diagnoal Wide Aspect, Wide Viewing Angle TFT-LCD.

OTOMO TETSUYA (1); MIYASHITA KIYOSHI (1); TAKAHASHI KOSHIRO (1); HORI

SEIICHIRO (1); WAINABE HIROSHI (1); YAMAMOTO EIJI (1); UNO MITSUHIRO
(1); **INOUE MASANOBU** (2)
(1) Matsushita Electr. Ind. Co., Ltd.; (2) Matsushitadenkikogyo
AVCShohinkaiken
Natl Tech Rep, 1996, VOL.42,NO.3, PAGE.306-313, FIG.16, TBL.3
JOURNAL NUMBER: G0474AAH ISSN NO: 0028-0291 CODEN: NTROA
UNIVERSAL DECIMAL CLASSIFICATION: 621.385:621.397
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

; **INOUE MASANOBU** (2)
...ABSTRACT: various types of visual image are applicable. It is used in
the NV-DRI DVC(**digital** video cassette) **camera** -recorder for a
monitor, which is highly evaluated. (author abst.)

40/3,K/4 (Item 1 from file: 248)
DIALOG(R)File 248:PIRA
(c) 2004 Pira International. All rts. reserv.

00576479 Pira Acc. Num.: 40030306

Title: Electronic Still Camera, Instant Printer and Instant Film
Authors: Aosaki K; Omura H; Uchiyama H; **Nishiura Y** ; Hara T
Patent Assignee: Fuji Photo Film Co Ltd
Patent Number: EP 1026543 Patent Date: 000809
Application number: JP 291058 Application Date: 971023
Publication Year: 2000
Document Type: Patent
Language: English

Authors: Aosaki K; Omura H; Uchiyama H; **Nishiura Y** ; Hara T
...Descriptors: **Digital** imaging - **Cameras**

?

File 348:EUROPEAN PATENTS 1978-2004/Jul W01

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040701,UT=20040624

(c) 2004 WIPO/Univentio

Set	Items	Description
S1	540481	IMAG? OR PHOTOS OR PHOTO OR PHOTOGRAPH? OR PICTURE?
S2	67761	PIXEL? OR PEL OR PICTURE(3N)ELEMENT?
S3	30303	(COMPRESS? OR SHRINK? OR ZIP?? OR ZIPPING OR SUPPRESS?)(5N-) (RATE OR RATES OR RATING OR SETTING? OR RATIO? OR OPTION?)
S4	226391	CURSOR? OR POINTER? OR ARROW??
S5	1158376	FINE OR NORMAL OR BASIC OR SMALL OR MEDIUM OR LAREGE OR ST- ANDARD OR ECONOMY
S6	32191	S2(5N) (AMOUNT OR NUMBER? OR SUM OR TOTAL OR AREA OR REGION OR COMBINATION OR SIZE OR DIMENSION?)
S7	2904	(SELECT? OR IDENTIF? OR CHOOS? OR MARKING OR CLICK) (5N)S6
S8	11522	DIGITAL(3N)CAMERA??
S9	1929	(CHANG? OR MODIF? OR EDIT? OR SWITCH? OR ALTER? OR ADJUST?-) (3N)S3
S10	37849	S1(3N)QUALITY
S11	885	AU=(INOUE, M? OR NISHIURA. Y? OR INOUE M? OR NISHIURA Y?)
S12	56909	IC=H04N?
S13	11	S9(S)S8
S14	6	S13 AND (S11 OR S12)
S15	3	S14 AND AD=20000531:20040712/PR
S16	3	S14 NOT S15
S17	10	S8(S)S3(S)S6
S18	10	S17 NOT S14
S19	5	S18 AND AD=20000531:20040712/PR
S20	5	S18 NOT S19
S21	66	S10(S)S7
S22	5	S21(S)S3
S23	5	S22 NOT (S14 OR S18)
S24	0	S23 AND AD=20000531:20040712/PR
S25	18	S8(5N)S3
S26	2	S25(10N) (SELECT? OR CHOOS? OR CLICK?)
S27	0	S26 NOT (S17 OR S14)

16/3,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01072261

Camera connectable to a computer

An Computer anschliessbare Kamera

Camera raccordable a ordinateur

PATENT ASSIGNEE:

MINOLTA CO., LTD., (352928), Osaka Kokusai Building 3-13, 2-Chome,
Azuchi-Machi, Chuo-Ku, Osaka-Shi, Osaka 541-8556, (JP), (Applicant
designated States: all)

INVENTOR:

Niikawa, Masahito, c/o Minolta Co., Ltd., Osaka Kokusai Building,
3-13,2-chome, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka, 541-8556, (JP)
Nakamura, Kenji, c/o Minolta Co., Ltd., Osaka Kokusai Building,
3-13,2-chome, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka, 541-8556, (JP)
Hayakawa, Izumi, c/o Minolta Co., Ltd., Osaka Kokusai Building,
3-13,2-chome, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka, 541-8556, (JP)

LEGAL REPRESENTATIVE:

HOFFMANN - EITLE (101511), Patent- und Rechtsanwälte Arabellastrasse 4,
81925 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 944247 A2 990922 (Basic)
EP 944247 A3 010530

APPLICATION (CC, No, Date): EP 99104054 990317;

PRIORITY (CC, No, Date): JP 9868975 980318

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-005/232 ; H04N-001/00

ABSTRACT WORD COUNT: 117

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9938	627
SPEC A	(English)	9938	6511
Total word count - document A			7138
Total word count - document B			0
Total word count - documents A + B			7138

INTERNATIONAL PATENT CLASS: H04N-005/232 ...

... H04N-001/00

...SPECIFICATION the general controller 211.

The flash device (which may be abbreviated as FL) of the **digital camera** 1 has an "automatic flash mode", a "forcible flash mode", and a "flash prohibition mode...

...body 2, the flash mode is switched among three modes in a cyclic order.
The **digital camera** 1 has a 1/8 compression rate and a 1/20 compression rate, and the user can select the preferred **compression rate** K. For example, if the **compression rate setting switch** 12 is shifted to the right, the compression rate K is set to 1/8...

16/3,K/2 (Item 2 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01064868

Image retrieval system for retrieving a plurality of images which are recorded in a recording medium

Bildwiederauffindungssystem zur Wiederauffindung einer Vielzahl von auf einem Aufzeichnungsträger aufgezeichneten Bildern

Système de recouvrement d'images pour recouvrir plusieurs images qui sont enregistrées sur un support d'enregistrement

PATENT ASSIGNEE:

MINOLTA CO., LTD., (352928), Osaka Kokusai Building 3-13, 2-Chome, Azuchi-Machi, Chuo-Ku, Osaka-Shi, Osaka 541-8556, (JP), (Applicant designated States: all)

INVENTOR:

Niikawa, Masahito, c/o Minolta Co., Ltd., Osaka Kokusai Building, 3-13, 2-chome, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka 541-8556, (JP)
Nakamura, Kenji, c/o Minolta Co., Ltd., Osaka Kokusai Building, 3-13, 2-chome, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka 541-8556, (JP)
Morimoto, Yasuhiro, c/o Minolta Co., Ltd., Osaka Kokusai Building, 3-13, 2-chome, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka 541-8556, (JP)
Nanba, Katsuyuki, c/o Minolta Co., Ltd., Osaka Kokusai Building, 3-13, 2-chome, Azuchi-machi, Chuo-ku, Osaka-shi, Osaka 541-8556, (JP)

LEGAL REPRESENTATIVE:

HOFFMANN - EITLE (101511), Patent- und Rechtsanwälte Arabellastrasse 4, 81925 München, (DE)

PATENT (CC, No, Kind, Date): EP 938227 A2 990825 (Basic)
EP 938227 A3 000906

APPLICATION (CC, No, Date): EP 99102717 990218;

PRIORITY (CC, No, Date): JP 9836464 980218; JP 9836465 980218; JP 9836466 980218

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/21

ABSTRACT WORD COUNT: 92

NOTE:

Figure number on first page: 4

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9934	394
SPEC A	(English)	9934	10678
Total word count - document A			11072
Total word count - document B			0
Total word count - documents A + B			11072

INTERNATIONAL PATENT CLASS: H04N-001/21

...SPECIFICATION unit 2. The connecting terminal 13 makes an external connection with a personal computer.

The **digital camera** 1 has three kinds of flash concerning modes: "auto-flash mode", "forcible-flash mode", and modes. Also, in the **digital camera** 1, the compression rate K of two kinds (1/8 and 1/20) are selected and set up. By sliding the **compression - rate** setup **switch** 12 into the right, the compression rate K = 1/8 is set up, and by ...

16/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01004506

An image processing method, an image processing apparatus, an image input device, a photographing system, a communication device, a communication system, and a storage medium

Bildverarbeitungsverfahren und -vorrichtung, Bildeingabegerat, Fotografiersystem, Ubertragungsgerat und -system sowie Aufzeichnungsmedium

Procede et appareil de traitement d'image, dispositif d'entree d'image, systeme de photographie, dispositif et systeme de communication, et support d'enregistrement

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

Yoshida, Shigeo, Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)
Sonobe, Hiraku, Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)
Ono, Satoshi, Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)
Ohara, Keiji, Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)
Matsumoto, Shinichi, Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)
Seki, Takayuki, Canon Kabushiki Kaisha, 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Beresford, Keith Denis Lewis et al (28273), BERESFORD & Co. High Holborn 2-5 Warwick Court, London WC1R 5DJ, (GB)

PATENT (CC, No, Kind, Date): EP 905966 A2 990331 (Basic)
EP 905966 A3 000322

APPLICATION (CC, No, Date): EP 98307925 980929;

PRIORITY (CC, No, Date): JP 97266616 970930; JP 98258182 980911

DESIGNATED STATES: DE; FI; FR; GB; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04N-001/21 ; H04N-101:00

ABSTRACT WORD COUNT: 155

NOTE:

Figure number on first page: 15

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9913	1648
SPEC A	(English)	9913	20070
Total word count - document A			21718
Total word count - document B			0
Total word count - documents A + B			21718

INTERNATIONAL PATENT CLASS: H04N-001/21 ...

... H04N-101:00

...SPECIFICATION disadvantages or the like that the collision of memory resources may take place when a **digital camera** and a communication device are integrally formed for use with the arrangement to control the functions such as the automatic **changes** of **compression ratio** and the automatic **changes** of the sizes of reception data.

Consequently, it is possible to satisfy the communication having...

20/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00885644

Image sensing and recording apparatus and performing image sensing operations in accordance with features of removable recording media
Bilderfassungs- und Aufnahmevorrichtung und Verfahren zur Ausfuehrung von Bilderfassungsarbeiten in Ubereinstimmung mit Besonderheiten auswechselbarer Aufnahmemei
Captage et enregistrement d'image et methode pour accomplir des operations de captage d'image conformement aux caracteristiques de moyens d'enregistrement amovi

PATENT ASSIGNEE:

CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, (JP), (applicant designated states: DE;ES;FR;GB;IT;NL)

INVENTOR:

Suga, Akira, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)

Muramoto, Tomotaka, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)

Sasakura, Takao, Canon Kabushiki Kaisha, 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Pellmann, Hans-Bernd, Dipl.-Ing. et al (9227), Patentanwaltsburo Tiedtke-Buhling-Kinne & Partner Bavariaring 4, 80336 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 810786 A2 971203 (Basic)
EP 810786 A3 990421

APPLICATION (CC, No, Date): EP 97108619 970528;

PRIORITY (CC, No, Date): JP 96138671 960531

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: H04N-005/77;

ABSTRACT WORD COUNT: 161

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9711W4	3247
SPEC A	(English)	9711W4	5540
Total word count - document A			8787
Total word count - document B			0
Total word count - documents A + B			8787

...SPECIFICATION accordance with features of removable recording media for recording the obtained image or images.

A **digital camera** which records a digitized still image on a removable recording medium, such as a memory...

...become popular with the advance of digital technology. As for image sensing modes of such **digital camera**, there are a single image sensing mode for recording a single still image and a...

...of 30fps (frames per second), it is possible to expand the utilization purpose of the **digital camera** to a camcoder. Furthermore, as a feature of the **digital camera**, an image can be recorded by arbitrary **number of pixels per frame, compression ratio, and frame rate**.

Meanwhile, there are various recording media conforming to the PC Card Standard, and their properties...

20/3,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS
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00693977

Method and apparatus for customer identification at automated teller machines.

Verfahren und Vorrichtung zur Kundenidentifikation an einem automatischen Bankschalter.

Methode et dispositif pour l'identification du client a un guichet de banque automatique.

PATENT ASSIGNEE:

EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York 14650-2201, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Ray, Lawrence Allen, c/o Eastman Kodak Co., Patent Legal Staff, 343 State Street, Rochester, New York 14650-2201, (US)

Teigman, Uszer Asher, c/o Eastman Kodak Co., Patent Legal Staff, 343 State Street, Rochester, New York 14650-2201, (US)

Ellson, Richard Nathan, c/o Eastman Kodak Co., Patent Legal Staff, 343 State Street, Rochester, New York 14650-2201, (US)

LEGAL REPRESENTATIVE:

Buff, Michel (14411), Kodak-Pathe Departement des Brevets et Licences CRT
Centre de Recherches et de Technologie Zone Industrielle, F-71102
Chalon sur Saone Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 661677 A2 950705 (Basic)
EP 661677 A3 951220

APPLICATION (CC, No, Date): EP 94420364 941220;

PRIORITY (CC, No, Date): US 174562 931228

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G07F-007/10; G07C-009/00;

ABSTRACT WORD COUNT: 90

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	371
SPEC A	(English)	EPAB95	2683
Total word count - document A			3054
Total word count - document B			0
Total word count - documents A + B			3054

...SPECIFICATION used to manage the collection of images.

By way of example, images captured by a **digital camera** with an NTSC resolution of 768 x 512 pixels can be **compressed** at a **ratio** of 30:1. Such **compression ratios** can be achieved using one of many possible compression algorithms, algorithms such as those contained...

...integrated circuits (ASIC's) have been developed capable of compressing images at nearly 10 million **pixels** /second. The preferred **size** of the image is sufficiently small such that the time required for compression can be...

20/3,K/3 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00764313 **Image available**

METHOD AND SYSTEM FOR COMPRESSING IMAGE DATA, WITH WAVELET TRANSFORM AND QUADTREE CODING, FOR TELECOMMUNICATION

PROCEDE ET SYSTEME POUR TRAITER DES DONNEES D'IMAGE AU MOYEN D'UNE

**TRANSFORMEE PAR ONDELETTES ET D'UN CODAGE D'ARBRE QUADRATIQUE A DES
FINS DE TELECOMMUNICATION**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200077741 A1 20001221 (WO 0077741)

Application: WO 2000FI519 20000609 (PCT/WO FI0000519)

Priority Application: FI 991328 19990610

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5983

Fulltext Availability:

Claims

Claim

... different imaging applications. These applications include storage,
which varies from a few images in a **digital camera** to thousands of
0 images in a library for image archival. Applications also include...

...encoding and decoding the quality of the image may be gradually enhanced
by increasing the **number** of bits per **pixel**
used in its representation;
- progressivity in resolution. This means that the spatial resolution of
the...

...as the JPEG baseline. In addition to its poor performance when applied
at low bit **rates** this **compression** system does not offer the above
functionalities. To overcome JPEG baseline's shortcomings several
solutions...block size. A typical image block size is usually greater
than or equal to 16x16 **pixels** , but the block **size** may also be
smaller. In the wavelet domain, the coefficients are quantized
successively in decreasing...

20/3,K/4 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00428986 **Image available**

INTELLIGENT VIDEO INFORMATION MANAGEMENT SYSTEM

SYSTEME INTELLIGENT POUR GERER DES INFORMATIONS VIDEO

Patent Applicant/Assignee:

SENSORMATIC ELECTRONICS CORPORATION,

Inventor(s):

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LIN-LIU Sen,
NGUYEN Lyn,
AUYEUNG Alex Kamlun,
PEDERSEN Chris Harvey Jr,
SMITH Gordon W,
OUSLEY David James,
WANG Sherwin Sheng-shu,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9819450 A2 19980507

Application: WO 97US17886 19971001 (PCT/WO US9717886)

Priority Application: US 96742017 19961031; US 96741715 19961031; US
96740628 19961031; US 96741982 19961031; US 96741914 19961031; US
96741983 19961031; US 96729620 19961031; US 96740651 19961031; US
96742015 19961031; US 96741650 19961031; US 96740627 19961031

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW
GH KE LS MW SD SZ UG ZW AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT
SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 114725

Fulltext Availability:

Detailed Description

Detailed Description

... the

dynamic video signal also having a space resolution corresponding to a density at which **pixels** in the signal are formed in the image plane, the apparatus also including signal processing...at a location remote from the first storage device, for storing, in the form of **digital** 5 data, the second video information provided by the second video information source, a third...further aspect of the invention, there is provided a method of representing video data in **compressed** form, including the steps of dividing an image plane into a plurality of rectangular areas...the invention, there is provided apparatus for formatting an image plane represented as a two- **dimensional** array of **pixel** locations according to a 4: 1: 1 digital color video format, including circuitry for dividing the image plane into n rectangular regions having a vertical **dimension** of m **pixels** and a horizontal **dimension** of 4m **pixels**, n being an integer greater than 1, m being an even integer greater than 1...

...a first

chrominance signal, and each value of the first chrominance-value block representing an **area** corresponding to four horizontally sequential **pixels** of the respective
SUBSTITUTE SHEET (RULE 26)
rectangular region, the second one of the two...

...the first chrominance signal, each value of the second chrominance-value block representing an **area** corresponding to four horizontally-sequential **pixels** of the respective rectangular **region** .

In a preferred embodiment of the invention, each of the pixel blocks is made up...the image data, the display device displaying the image in the form of a two **dimensional** array of **picture elements** , the array of **picture elements** defining an image plane, the method including steps of dividing the image plane into a...4: 1: 1 formats . in which each chrominance data byte corresponds to a two **pixel** by two **pixel** **area** of the image plane. The format utilized herein and illustrated in Fig. 23 helps to...by reference numeral 940, constitute the line header, which is a 16 bit line identifying **number** . There follows the **pixel** data for the raster line, including first four bytes of luminance data, then two bytes...

20/3,K/5 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00367123 **Image available**

GENERAL PURPOSE, PROGRAMMABLE MEDIA PROCESSOR
PROCESSEUR POUR MEDIA PROGRAMMABLE ET UNIVERSEL

Patent Applicant/Assignee:

MICROUNITY SYSTEMS ENGINEERING INC,
HANSEN Craig,
MOUSSOURIS John,

Inventor(s):

HANSEN Craig,
MOUSSOURIS John,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9707450 A1 19970227

Application: WO 96US13047 19960816 (PCT/WO US9613047)

Priority Application: US 95516036 19950816

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB
GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG
AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL
PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 116769

Fulltext Availability:

Detailed Description

Detailed Description

... diDtal bandwidth spectrum shown in FIG. 3 taking into account the bandwidth overhead associated with **compressed** video techniques.

FIG. 5 is a block diagram of the current specialized processor solution for...communication with the general purpose media processor 12 include personal computers, television sets., work stations, **digital** video **camera** recorders, and compact disc read-only memories. As those skilled in the art will also...op,ra,rb,ishifta.isizea) as
a <-- RegRead(ra, 64)

```
case (ishifta & isizea) of  
0.  
  size <-- 64  
32..47.
```

```
size 32  
48..55.  
size 16  
56..59.
```

```
size 8  
60..61...
```

?

23/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01233489

Optical element and optical device having it
Optisches Element und damit ausgestattete optische Vorrichtung
Element optique et dispositif optique comprenant ledit element

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 1069450 A2 010117 (Basic)
EP 1069450 A3 030813

APPLICATION (CC, No, Date): EP 2000305060 000615;

PRIORITY (CC, No, Date): JP 99169377 990616; JP 99169657 990616

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G02B-026/02; G02B-005/24; G02F-001/17;
G02B-001/06

ABSTRACT WORD COUNT: 87

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200103	1043
SPEC A	(English)	200103	13332
Total word count - document A			14375
Total word count - document B			0
Total word count - documents A + B			14375

...SPECIFICATION one shot AF, continuous AF, etc.), a drive mode (single shot, continuous shots, etc.), an **image quality** mode (the **number** of recording **pixels** used, an image **compression rate selected**, etc.) and so on by use of the monitor 151 and the control switches 152...AF, etc.), the drive mode (single shot, continuous shots, etc.), the image quality mode (the **number** of recording **pixels** used, the image **compression rate selected**, etc.) and so on by use of the monitor 151 and the control switches 152...

23/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00964839

Method and apparatus for compressing and decompressing image data
Verfahren zur Kompression/Dekompression von Bilddaten
Procede et appareil de compression et de decompression de donnees d'images

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 875858 A2 981104 (Basic)
EP 875858 A3 000719
EP 875858 B1 031203

APPLICATION (CC, No, Date): EP 98303354 980429;

PRIORITY (CC, No, Date): US 846549 970430

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06T-009/00

ABSTRACT WORD COUNT: 8819

NOTE:

Figure number on first page: 6

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199845	1303
CLAIMS B	(English)	200349	1350
CLAIMS B	(German)	200349	1283
CLAIMS B	(French)	200349	1578
SPEC A	(English)	199845	6584
SPEC B	(English)	200349	6651
Total word count - document A			7888
Total word count - document B			10862
Total word count - documents A + B			18750

...SPECIFICATION image is not quite as good as when the mask value is zero, but the **compression ratio** is better. At the default value for the present invention, most users cannot **detect degradation** of the image quality after **compression** and decompression operations have been performed. The user can select the mask value based on **user preferences** of **compression ratio** vs. image quality. The lower the mask value, the fewer distinct colors that are considered the same color for compression purposes and the lower the **compression ratio**; **the** higher the mask value, the more distinct colors that are considered the same for compression purposes and **the** higher the **compression ratio**.

FIGs. 7 - 8 are high level flow charts of the steps for compressing image data according to the...

...value may be set by a user of the compression method based on the desired **compression ratio** and resulting **decompressed image quality**. Alternatively, the mask value may be preset to a default value, such as 16D. The...

...is stored in a file on a computer system, the file is opened and the **first** block of **image** data is read from **the** file.

At step 106, the 64 pixels of the uncompressed block are scanned to build...

DIALOG(R)File 348:EUROPEAN PATENTS
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00711605

Reconfigurable data processing stage
Rekonfigurierbare Datenverarbeitungsstufe
Etage d'operation de donnees reconfigurable

PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 674446 A2 950927 (Basic)

EP 674446 A3 960814

EP 674446 B1 010801

APPLICATION (CC, No, Date): EP 95301300 950228;

PRIORITY (CC, No, Date): GB 9405914 940324

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IE; IT; LI; NL

INTERNATIONAL PATENT CLASS: H04N-007/24; G06F-013/00; G06F-009/38

ABSTRACT WORD COUNT: 144

NOTE:

Figure number on first page: 10

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	2475
CLAIMS B	(English)	200131	1079
CLAIMS B	(German)	200131	1072
CLAIMS B	(French)	200131	1186
SPEC A	(English)	EPAB95	125236
SPEC B	(English)	200131	121335
Total word count - document A			127738
Total word count - document B			124672
Total word count - documents A + B			252410

...SPECIFICATION channels, and assigns one or two pixels to each channel, for example a 3KHz voice **quality** telephone line is divided into 768 channels spaced about 3.9Hz apart. Each channel consists...from one of the three matrices (luminance and two chrominance) that make up a picture.

COMPRESSION : Reduction in the number of bits used to represent an item of data.

DECODER: An...data continued to be presented to Stage A the pipeline would not be able to **compress** any further and valid ...circuitry of the Spatial Decoder and the Temporal Decoder. For example, under one or more **compression** standards, the **compression ratio** of the standard is achieved by varying the number of bits that it uses to...36 to alert it to the presence of the token being handled by the action **identification** circuit 39.

Control tokens may also be processed.

A more detailed description of the various...generator calculates start and stop addresses which is best illustrated by an example.

Consider a **pixel** offset of (1,1), as illustrated by the shaded area in Figure 26. The address...

23/3,K/4 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00802534

ANY-TO-ANY COMPONENT COMPUTING SYSTEM

SYSTEME INFORMATIQUE A COMPOSANTS TOUTE CATEGORIE

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TN 34705, US, US (Residence), US (Nationality), (For all designated
states except: US)

Patent Applicant/Inventor:

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LOWE Steven, 1625 Starboard Drive, Hixson, TN 37343, US, US (Residence),
US (Nationality), (Designated only for: US)

Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200135216 A2-A3 20010517 (WO 0135216)

Application: WO 2000US31231 20001113 (PCT/WO US0031231)

Priority Application: US 99164884 19991112

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 275671

Fulltext Availability:

Claims

Claim

... and giving one example from each

Data Category:

0 Data Category Word Variant Example

Life, **Quality** Data Class: Invitingly He looked invitingly

Time invite time invite time, let's send out...ect the meaning of) the
word they are part of, or other associated else.

3) (**Compression**) Operator Words. These are words that may or may not
have a meaning as per (1) but they also perform some kind of **compression**

operation on the word to which they are attached or on words to which
they...

...are de-compression-type rules, and rules required to translate into the
spoken language are **compression** -type rules. The relationship between
these various components is further explained in FIG. 1, wh...

23/3,K/5 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00455545 **Image available**

METHOD AND DEVICE FOR NOISE REDUCTION
PROCEDE ET DISPOSITIF DE REDUCTION DU BRUIT

Patent Applicant/Assignee:

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OLSSON Kent,
ZHANG Ting Ting,
XU Youshi,
ANDERSSON Roger,

Inventor(s):

OLSSON Kent,
ZHANG Ting Ting,
XU Youshi,
ANDERSSON Roger,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9846009 A1 19981015

Application: WO 98SE625 19980406 (PCT/WO SE9800625)

Priority Application: SE 971251 19970404; SE 973234 19970908

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US
UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE
CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN
ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 8336

Fulltext Availability:

Claims

Claim

... having an equal or
similar value; and by
-replacing the currently processed pixel with the **selected pixel** . The
determining of the **number** of correlated **pixels** , i.e. the scene change
analysis, is in a preferred embodiment carried out by observing...

...temporally adjacent slices $S(i,j,t')$. The slices may for example consist
of a centre **pixel** $P(i,j)$ and a **selected number** of the closest
adjacent **pixels** $P(i',j')$ forming e.g. a square, a cross or any other
selected geometric...frame wherein noise. The noise reduction is in
different applications and
embodiments carried to enhance **image quality** or to achieve a required
compression rate in an encoded image signal. In advantageous cases
the two purposes may even be combined...

?

File 9:Business & Industry(R) Jul/1994-2004/Jul 13
 (c) 2004 The Gale Group
 File 15:ABI/Inform(R) 1971-2004/Jun 27
 (c) 2004 ProQuest Info&Learning
 File 16:Gale Group PROMT(R) 1990-2004/Jul 09
 (c) 2004 The Gale Group
 File 20:Dialog Global Reporter 1997-2004/Jul 14
 (c) 2004 The Dialog Corp.
 File 47:Gale Group Magazine DB(TM) 1959-2004/Jul 14
 (c) 2004 The Gale group
 File 75:TGG Management Contents(R) 86-2004/Jul W1
 (c) 2004 The Gale Group
 File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Jul 09
 (c) 2004 The Gale Group
 File 88:Gale Group Business A.R.T.S. 1976-2004/Jul 13
 (c) 2004 The Gale Group
 File 98:General Sci Abs/Full-Text 1984-2004/Jun
 (c) 2004 The HW Wilson Co.
 File 112:UBM Industry News 1998-2004/Jan 27
 (c) 2004 United Business Media
 File 141:Readers Guide 1983-2004/Jun
 (c) 2004 The HW Wilson Co
 File 148:Gale Group Trade & Industry DB 1976-2004/Jul 09
 (c)2004 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 275:Gale Group Computer DB(TM) 1983-2004/Jul 12
 (c) 2004 The Gale Group
 File 264:DIALOG Defense Newsletters 1989-2004/Jul 12
 (c) 2004 The Dialog Corp.
 File 484:Periodical Abs Plustext 1986-2004/Jun W3
 (c) 2004 ProQuest
 File 553:Wilson Bus. Abs. FullText 1982-2004/Jun
 (c) 2004 The HW Wilson Co
 File 570:Gale Group MARS(R) 1984-2004/Jul 09
 (c) 2004 The Gale Group
 File 608:KR/T Bus.News. 1992-2004/Jul 13
 (c)2004 Knight Ridder/Tribune Bus News
 File 620:EIU:Viewswire 2004/Jul 13
 (c) 2004 Economist Intelligence Unit
 File 613:PR Newswire 1999-2004/Jul 12
 (c) 2004 PR Newswire Association Inc
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jul 08
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 File 623:Business Week 1985-2004/Jun 24
 (c) 2004 The McGraw-Hill Companies Inc
 File 624:McGraw-Hill Publications 1985-2004/Jun 24
 (c) 2004 McGraw-Hill Co. Inc
 File 634:San Jose Mercury Jun 1985-2004/Jul 12
 (c) 2004 San Jose Mercury News
 File 635:Business Dateline(R) 1985-2004/Jul 13
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 File 636:Gale Group Newsletter DB(TM) 1987-2004/Jul 09
 (c) 2004 The Gale Group
 File 647:CMP Computer Fulltext 1988-2004/Jul W1
 (c) 2004 CMP Media, LLC
 File 696:DIALOG Telecom. Newsletters 1995-2004/Jul 13
 (c) 2004 The Dialog Corp.
 File 674:Computer News Fulltext 1989-2004/Jun W4
 (c) 2004 IDG Communications
 File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 587:Jane`s Defense&Aerospace 2004/Jun W4
 (c) 2004 Jane`s Information Group

Set	Items	Description
S1	9947620	IMAG? OR PHOTOS OR PHOTO OR PHOTOGRAPH? OR PICTURE?
S2	184823	PIXEL? OR PEL OR PICTURE(3N)ELEMENT?
S3	69527	(COMPRESS? OR SHRINK? OR ZIP?? OR ZIPPING OR SUPPRESS?) (5N-) (RATE OR RATES OR RATING OR SETTING? OR RATIO? OR OPTION?)
S4	418330	CURSOR? OR POINTER? OR ARROW??
S5	20843487	FINE OR NORMAL OR BASIC OR SMALL OR MEDIUM OR LAREGE OR ST- ANDARD OR ECONOMY
S6	17590	S2(5N) (AMOUNT OR NUMBER? OR SUM OR TOTAL OR AREA OR REGION OR COMBINATION OR SIZE OR DIMENSION?)
S7	427	(SELECT? OR IDENTIF? OR CHOOS? OR MARKING OR CLICK) (5N)S6
S8	201005	DIGITAL(3N)CAMERA??
S9	1930	(CHANG? OR MODIF? OR EDIT? OR SWITCH? OR ALTER? OR ADJUST?-) (3N)S3
S10	222739	S1(3N)QUALITY
S11	241	AU=(INOUE, M? OR NISHIURA. Y? OR INOUE M? OR NISHIURA Y?)
S12	0	S11 AND S8
S13	3	S8(S)S9
S14	0	S13 AND PY=2001:2004
S15	2	RD S13 (unique items)
S16	167	S3(S)S4
S17	6	S16(S)S8
S18	6	S17 NOT S15
S19	6	S18 AND PY=2001:2004
S20	0	S18 NOT S19
S21	7	S7(S)S8
S22	7	S21 NOT (S17 OR S15)
S23	4	S22 AND PY=2001:2004
S24	3	S22 NOT S23
S25	2	RD S24 (unique items)
S26	80	S10(S) (S7 OR S9)
S27	0	S26(S)S4
S28	20	S26(S)CAMERA?
S29	18	S28 NOT (S17 OR S15 OR S21)
S30	12	S29 AND PY=2001:2004
S31	6	S29 NOT S30
S32	5	RD S31 (unique items)
S33	3	S7(S)S3
S34	3	S33 NOT (S28 OR S17 OR S15 OR S21)
S35	3	RD S34 (unique items)

15/7/1 (Item 1 from file: 20)
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The Boston Globe Plugged-In Column

Simson L. Garfinkel

KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (BOSTON GLOBE - MASSACHUSETTS)

April 08, 1999

KODAK DIGITAL CAMERAS AMONG BEST AROUND BUT VERY EXPENSIVE: Children love digital cameras. You snap their picture, and the kids are displayed on a screen on the camera's backside.

The big advantage of a digital camera is that the instant you snap the picture, you can take the image into your computer. Once there, you can put the image on a Web page, e-mail it to a friend, or electronically retouch it. The second big advantage of a digital camera is storage: You can cram more than 10,000 pictures into a one gigabyte hard drive -- no more bursting binders.

But despite the allure of the digital, last year's e-cameras were, for the most part, quite limited. Basically point-and-shoot devices, these cameras had limited memory. That meant you frequently had to empty the images; they had limited resolution; and they couldn't adequately reproduce detail in bright spots or in shadows. The cameras themselves had few features. Another problem was in the optics: Most of last year's cameras were fixed-focus, which further reduced image quality.

Cameras released this year are likely to be significantly better, both as advances in computers move into these hand-held devices, and as camera makers begin to catch their stride. Increasingly, these cameras must stand on their own as photographic devices, rather than electronic playthings.

From the beginning Kodak has been a pioneer in the field of digital photography. Recently, the company released two new digital cameras. Both are among the best available. Alas, they are also quite expensive.

Kodak's DC240 (\$700) is a sophisticated digital camera with a built-in zoom, built-in flash, and 8MB of compact flash memory. It's lightweight and relatively high resolution. Standard resolution is 640 by 480 pixels, the same as a VGA computer screen. High-resolution is 1280 by 960, which looks pretty good printed as a 4 inch by 5 inch photograph. Besides changing the resolution, you can also **adjust the compression setting**, allowing you to get between 30 and 160 images in a 8MB flash cartridge.

Kodak's more-expensive DC265 (\$1,000) camera is loaded with more features, but of course that's what you are paying for. The DC265 has higher resolution (768 by 512 pixels standard, 1536 by 1024 pixels max) and three compression settings. The DC265 also has a microphone that lets you record a little audio note for each photo, and a little speaker to play it back. The camera uses this speaker to make sound effects when you take a photo or click the buttons on the back panel. And one feature that's super cool on the DC265 is that it has a gravity sensor: When you turn the camera sideways, it senses the turn and automatically rotates the image back when the picture is displayed.

The DC265 will allow you to take burst photos (several pictures in a row) or time-lapse (taking a photo once a minute to once a day). Burst mode is handy if the person you are photographing consistently blinks: Perhaps the first frame won't be any good, but the second or third frame probably will. Time-lapse is useful for surveillance, scientific experiments, and nature photography.

Both cameras have a little LCD screen on the back that lets you view the pictures that you have taken as well as set the camera's controls. Both cameras have a built-in flash, which you can disable, and both allow you to set the color balance of your scene. That is, you can tell the camera whether the lighting is by sunlight, fluorescent, or tungsten bulbs.

The cameras also come with programs that allow you to control nearly all of the camera's settings from your computer -- a process that's much easier than fiddling with the camera's built-in menu system. The DC240's software is more sophisticated than the software for the DC265; besides setting controls, it actually lets you snap a picture.

The easiest way to get the images out of one of these cameras is to take the compact flash picture card out of the camera and plug it into your PC using Kodak's optional connection kit. The kit comes with a PCMCIA adapter card that lets you plug the compact flash into a laptop computer, as well as another adapter that lets you read the card through your computer's parallel port. Once it's attached to your computer, the compact flash looks like a big floppy disk or a small ZIP cartridge, filled with images.

Another way to get the images into your computer is to use the USB (Universal Serial Bus) interface. Once attached, the camera looks like an external hard drive. One good piece of software engineering that Kodak has done is to create an extension for the Microsoft Windows explorer, so that you can directly view thumbnails without having to start up another application. Unfortunately, despite the supposed speed of USB, viewing the photos this way is quite slow.

Overall, these are nice cameras, but \$700 or more is a lot for a point-and-shoot, and I would like to see a bit more camera for the money.

My first problem with these machines isn't the electronics, but the optics. Both of these cameras have the problem that when you hit the shutter button, they don't take the photographs immediately. Instead, they focus, making a lot of noise in the process. They take the photograph about a second after you press the shutter release, and by then it's sometimes too late.

The second problem is the lens cap: It doesn't stay on the lens. This is especially troublesome because there is no way to replace the glass cover over the lens and there's no way to augment it with a transparent (and relatively low-cost) haze filter. This means that after a year or so of heavy use, the glass lens cover is likely to be quite scratched and need factory replacement.

Battery drain is another problem. One of the big advantages of digital cameras is that you don't need to keep buying film. Unfortunately, these cameras both suck batteries dry -- you'll be lucky if you get 50 shots from a set of 4 AA cells. Be sure to use rechargeable batteries, if you can.

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Pretty as a pixel. (seven digital cameras reviewed) (includes related articles on how products were tested, photo scanners) (Hardware Review) (Evaluation)
Plain, Stephen W.
Computer Shopper, v17, n5, p186(9)
May, 1997

TEXT:
Product Listing
Agfa ePhoto 307

Agfa
100 Challenger Rd.
Ridgefield Park, NJ 07660-2199
800-227-2780; 201-440-2500
www.agfahome.com/ephoto
Avg. Mail-Order Price: \$537

Casio QV-10A Plus

Casio
570 Mt. Pleasant Ave.
Dover, NJ 07801
800-962-2746; 201-361-5400
www.casio.com
Avg. Mail-Order Price: \$395

Casio QV-100

Casio
570 Mt. Pleasant Ave.
Dover, NJ 07801
800-962-2746; 201-361-5400
www.casio.com
Avg. Mail-Order Price: \$593

Eastman Kodak DC20

Eastman Kodak Co.
901 Elmgrove Rd.
Rochester, NY 14653-5200
800-235-6325; 716-726-7260
www.kodak.com
Avg. Mail-Order Price: \$186

Eastman Kodak DC25

Eastman Kodak Co.
901 Elmgrove Rd.
Rochester, NY 14653-5200
800-235-6325; 716-726-7260
www.kodak.com
Avg. Mail-Order Price: \$465

Epson PhotoPC 500

Epson America
20770 Madrona Ave.
Torrance, CA 90503
800-463-7766; 310-782-0770
www.epson.com
Avg. Mail-Order Price: \$486

Olympus D-200L

Olympus America
2 Corporate Center Dr.
Melville, NY 11747-3157
800-622-6372; 516-844-5000
www.olympusamerica.com/digital
Avg. Mail-Order Price: \$578

With these digital-camera deals, e-mail postcards, Web-site photos, and more are just a couple of clicks away

Every picture tells a story, and it's telling indeed what a photograph can do for your Web site, PC-based presentations, or even plain old e-mail. Digital cameras let you point, shoot, and transfer your images directly to your PC, making it easy to add photographs to a variety of applications. With a traditional film camera, you'd have to take a picture, have it developed and printed, and scan it into your computer to get the same result.

Before you go and throw away your 35mm point-and-shoot camera, though, be aware that most digital cameras' output cannot match what even the cheapest 35mm film camera can produce. But the growing appeal of low-end digital cameras--many available for \$600 and under--is largely due to their flexibility in tackling applications that traditional cameras alone cannot; most of these applications don't require printing at all.

With a digital camera, a real-estate agent can snap quick pictures of a listing in the morning and have them in a PowerPoint presentation by the afternoon. An insurance adjuster can record damages to a vehicle or house, check the shots on the spot, and e-mail them back to the company's database. And don't forget the killer application for digital cameras: the Web. Digital images can make the difference between a ho-hum Web page and a hit-happy masterpiece, and a digital camera with just 320x240 resolution can make adding photos to Web sites a snap.

This month, we examined digital cameras available by mail for less than \$600--from the \$186 Eastman Kodak DC20 to the \$593 Casio QV-100--to see how well the most affordable models perform. Although some share similar price points, they represent a surprisingly wide spectrum of functionality and quality.

Behind the lens

While many of these digital cameras look like traditional point-and-shoot film models, their innards are quite different. Instead of focusing light upon film to create a chemical reaction, digital cameras record the light as digital information. At the heart of the digital camera is a single chip, a charge-coupled device (CCD) resembling that found in most scanners. Its matrix of photosensitive cells converts light into sampled digital values.

Since a digital camera must capture an entire picture as close to simultaneously as possible--rather than scanning the image line-by-line--the key specification to look for is the number of cells in the CCD. The maximum output resolution of a digital camera is directly proportional to the number of cells the CCD has, or the number of pixels it is capable of capturing for each image.

Note, however, that higher quality isn't necessarily the result of higher resolution, which is more directly related to image size. An image taken at 640x480 resolution will display full-screen at VGA quarter-screen image, but the image quality--given the same CCD quality--should be identical despite the difference in image size.

If you're taking shots strictly for Web pages, 320x240 is adequate because photos are typically displayed at that resolution or smaller. But if you want to view pictures in a larger format or print out full-page images, you'll need a higher top resolution; low-resolution images likely cannot be enlarged at a precision acceptable for viewing. Four of the cameras reviewed here are capable of 640x480; the Casio QV-10A Plus tops out at 320x240 and the Kodak models peak at 493x373. Except for the QV-10A Plus, which is fixed at 320x240, all of the other units offer 320x240 as a lower resolution.

With film cameras, a photo's brightness is controlled using a combination of aperture size and shutter speed, usually referred to as exposure. But with digital cameras, vendors have an additional tool at hand: The amount of magnification (gain) of the voltage from the CCD can be adjusted to compensate for various lighting conditions. A well-designed

digital camera will balance aperture, shutter speed, and CCD gain to produce a properly balanced image. For most of these cameras, shutter-speed and aperture adjustments are automatic.

Capturing light intensities of a scene with a CCD is one thing; capturing the color accurately is another. Although traditional film has three layers for capturing red, green, and blue simultaneously, a CCD cell measures only the brightness of light, regardless of the color. To accurately measure the separate RGB light intensities, a CCD needs to capture three separate images, each filtered for a respective color. This process, which usually involves moving filters and painfully slow exposures, is used in higher-end digital cameras. To produce images with 24-bit color and still keep the cost down, all of the cameras we reviewed use a stationary color filter pattern in front of the CCD. While individual techniques vary, the basic idea is to capture alternating red, green, and blue light values, and interpolate the missing pixels for each color to approximate the RGB values for each cell.

After their CCD captures an image, these cameras use compression to reduce the image file size. Since **digital cameras** use nonvolatile flash RAM instead of inexpensive dynamic RAM, memory is at a premium at this price point. The greater the compression ratio, the more photos you can store per MB, but you sacrifice quality. Unlike more expensive models, these cameras do not let you **alter the compression ratio** to selectively optimize quality or image size.

As with film cameras, the lenses of digital cameras can make a tremendous difference in quality. The cameras we reviewed have focal-length ratings that are equivalent to a particular-size lens on a camera using 35mm film. The focal length determines the range of view the camera will capture. Remember, the smaller the focal length, the wider the view, but the greater the depth of field at a given aperture. Focal length also affects the distance you must position yourself from your subject in order to frame the image properly.

Smile for the PC

A digital camera's image quality depends on more than simply the camera's hardware features--what happens on the PC side also plays a role. All the cameras come with cables that connect them to your PC's serial port to transfer images. Each of the cameras also comes with a TWAIN driver that enables you to acquire the camera's images directly from any TWAIN-compliant application. In most cases, these drivers also provide an interface to camera settings like resolution and date/time, and most let you operate the camera in a "tethered" mode--while attached to your computer via the serial cable.

Most of the cameras came bundled with their own TWAIN-compliant image-manipulation software. The cameras from Agfa, Casio, and Olympus came with Adobe's Photo-Deluxe, and the two Kodaks came with PictureWorks Technology's PhotoEnhancer Special Fun Edition. PhotoDeluxe is a user-friendly and powerful image-management package, which lets you resize, crop, and edit pictures. It offers both manual adjustment features and an automatic Instant Fix feature to let you tweak the quality of an image. PhotoDeluxe also provides a wide variety of special effects you can apply to your photos, but it limits you to one open image at a time. PhotoEnhancer, on the other hand, lets you work with multiple images at once, and although it doesn't include as many special effects as PhotoDeluxe, it does include a very helpful set of tools to make photo adjustments a snap. Several of the cameras also include stand-alone transfer software you can use to get your images to your PC without the aid of another application. Like the TWAIN drivers, these packages vary in their capabilities.

In choosing one of these digital cameras, consider your purpose as well as the overall feel of the camera itself. If the number of pictures you can take in the field is your primary consideration, for example, a camera with memory expansion capabilities is probably to take, you can

filter through the selections to find the right choice.

Agfa ePhoto 307

At first glance, the Agfa ePhoto 307 seems like a no-frills unit--it has no LCD screen or flashy controls. In fact, with its understated appearance, it could easily be mistaken for a point-and-shoot film camera. Nevertheless, it delivers top-notch quality at both 640x480 and 320x240 resolutions, and it's one of the higher-priced units in our roundup, selling for about \$537 by mail.

The Agfa camera joins the Epson PhotoPC 500 as one of the two largest cameras in this group. A thicker, rounded right edge with a well-placed thumb grip gives the camera a comfortable feel, although smaller hands may find the case a bit too large. A door on the front slides open both to reveal the lens and to turn on the unit.

Unlike some of the other units reviewed, the Agfa doesn't have an LCD preview screen and uses only an optical viewfinder, leaving the rear of the camera uncharacteristically barren compared with most digital cameras. Two tiny LEDs next to the viewfinder alternate flashing red and solid green with the camera's busy and ready states. Traditionalists will like the big red shutter button, and all users will enjoy the fact that the Agfa runs on four alkaline AA batteries, which swap easily from the bottom. Unfortunately, there is no macro mode for capturing close-up pictures.

An LCD control panel on the top of the unit, along with four small buttons that correspond to the LCD prompts, makes up the unit's input controls. The LCD displays the number of shots captured, the number of shots left at the current resolution, graphical battery status, and flash status. The buttons allow you to switch resolutions and flash modes, start the unit's 10-second timer, and delete images. You can erase all of the captured images or kill them selectively, but without an LCD screen there is no means to review images before deleting unless the camera is connected to your PC. The camera uses a fixed 2MB of flash memory, which can't be expanded, and is rated to hold 36 high-resolution or 72 low-resolution images.

Our jury was very impressed with the Agfa's consistent quality, which rivaled the Epson's for the best overall quality. Both our indoor and outdoor test shots transferred to the PC with vibrant colors, excellent detail, and just the right degree of brightness. The Agfa was also the fastest camera on almost all of our image transfer tests, using Photoshop or Agfa's PhotoWise software. Only the Epson came close to matching its speed.

The Agfa comes with Adobe PhotoDeluxe and the vendor's own PhotoWise software. The latter provides basic image-transfer functionality such as previewing, downloading, and album management, plus basic image manipulation. It also provides an easy-to-use interface for controlling the camera in tethered mode. You can have the camera continuously update a thumbnail on the computer while looking for the right shot, or start a timer that is not limited to the onboard 10-second countdown.

If you're looking for a camera with the preview capabilities provided by an LCD screen, the Agfa ePhoto 307 is not for you. Otherwise, its excellent photo quality, ergonomic feel, and easy-to-use software make the Agfa camera a prime choice.

Casio QV-10A Plus

With an average mail-order price of \$395, the Casio QV-10A Plus is one of only two cameras in this feature to sell for under \$400. The unit falls short in image quality, lacks a built-in flash, and--with its fixed 320x240 resolution--is the only camera reviewed that doesn't provide a high-resolution setting.

The Casio QV-10A Plus, formerly known as the QV-10A, shares the same unusual design as the Casio QV-100 reviewed here. There's no mistaking these cameras for traditional film cameras: An LCD screen serves as an all-digital viewfinder, so you don't hold the camera right up to your eye. In fact, the lens is mounted on a swiveling appendage at the left side of

the unit. As you move it around, you can watch the preview image on the LCD.

This affords you the flexibility for taking pictures of yourself, but because the lens is not centered on the camera, you'll have to compensate for the offset image by holding the camera slightly to the right rather than pointing it straight at your subject. We also found that in bright, outdoor light, it was difficult to see the preview image.

Unlike those of most of the other cameras, the buttons and switches on the Casio models are located all over the unit--on the rear, left, top, and front--and the A/C adapter, video out, and digital jacks are unconventionally placed on the top of the camera. Because of the camera's atypical layout, using the Casio QV-10A Plus is not really intuitive.

The LCD screen's relatively slow refresh rate caused considerable blurring while we tried to focus on our test subjects. The Casios were the only cameras to include a manual adjustment for exposure to complement the unit's automatic exposure. While such fine-tuning shouldn't be necessary for most pictures, we found it almost a necessity for all of our test photos since the camera's images ranged from too-bright indoors to too-dark outdoors. Unlike the other vendors' models, the QV-10A also must be manually switched between its two aperture settings as you move from indoor shots to outdoor photos.

The QV-10A suffered from poor color reproduction on our indoor shots and green vertical banding on our outdoor shots, which were also too bright. We were able to adjust the brightness somewhat with the bundled Adobe PhotoDeluxe software, but the bands persisted. The QV-10A is rated to hold 96 images at 320x240 resolution with only 2MB of memory. Thus, the Casio is using a high compression ratio, which means more detail is lost for the sake of image storage. Nevertheless, the QV-10A does have its operational pluses: The LCD screen provides a nice way to review your shots, and the buttons on the top of the camera let you scroll through them, zoom in, view up to nine thumbnails, and selectively protect or erase individual shots.

In addition to PhotoDeluxe, Casio bundles QV-Link transfer software, which is fairly simple to use, though you can only set the comm-port settings to 57.6Kbps instead of the top 115.2Kbps available in the other vendor packages.

The Casio QV-10A Plus has an appealing price, but the unit lacks VGA resolution and a flash. Unpredictable image quality and an unintuitive feel also detract from the overall bundle.

Casio QV-100

The Casio QV-100 is the older sibling of the QV-10A Plus. Selling for about \$593 by mail, it's the most expensive model in our roundup. It has many of the same design quirks as the QV-10A Plus, but it is capable of both 640x480 and 320x240 resolutions.

The QV-100 lacks a built-in flash and uses the same basic case design as the QV-10A Plus, with some minor exceptions. Both Casio models provide a macro mode to capture pictures as close as 11cm, and both use onscreen digital indicators for operations such as deleting images and displaying frame numbers. The QV-100, however, gives a bit more information: As you switch between fine and normal resolutions, the unit displays the number of images left at each resolution with meaningful prompts such as "60F Remain."

Both Casios do a fine job of prompting you through the deletion process. When you press the delete button on the top of the unit, a full-screen prompt asks if you want to delete the single image or all images, or cancel. Both models also let you selectively protect images to prevent accidental erasure.

We found the quality of the QV-100's test shots to be somewhat better than that of the QV-10A Plus', although there was still a trace of the sunlight bands that we saw with the QV-10A. The color was a bit more accurate in the QV-100's 640x480 mode, but it needed some lightening up

through software. Both Casio models performed adequately on our timed tests, although the QV-100 was one of the slower performers on the high-resolution transfer into Photoshop.

In addition to Adobe Photo-Deluxe and Casio's QV-Link transfer software, which also come with the QV-10A Plus, the QV-100 includes ixlaPhoto Lite from ISR Group Limited and Microsoft's Internet Explorer 3.0. ISR's ixlaPhoto Lite lets you organize your pictures into colorful albums complete with templates, frames, and special effects.

The Casio QV-100 is priced high but lacks a built-in flash and has the same unintuitive design as the QV-10A Plus. Questionable picture quality further subtracts from this camera's allure.

Eastman Kodak DC20

The tiny Eastman Kodak DC20 is the smallest camera in the bunch, plus the least expensive by far, selling for about \$186 by mail. As with the other Kodak model reviewed here, the DC20 is capable of 493x373 and 320x240 resolutions. While the camera definitely has its limitations, it makes for a good family value.

The Kodak DC20 sacrifice's control for ease of use. With a minimalist approach to controls, the DC20 sports only a shutter button, a power button, and an erase button on the top of the unit. The camera uses an extremely small optical viewfinder and lacks a built-in flash. It runs on a long-life 3-volt lithium camera battery rather than AA alkalines.

Three indicator LEDs for power, busy, and memory-full conditions are on the rear. The status LEDs don't give you an ongoing indication of how many shots are left, but when there's only room for three more, the LED begins to blink: three blinks for three remaining shots, two for two shots, and so on. The unit is limited to just eight high-resolution or 16 low-resolution shots--the lowest of the group by far--and its memory can't be expanded. Furthermore, you can't switch between resolutions on the camera itself. Instead, you must connect it to a PC to switch resolutions via software, and the camera's memory must be erased before you do so.

Our jury was impressed to see that the DC20's test images were free of any major distortions. The color accuracy, however, was not very good: On our indoor shot, the DC20 made a dark blue sweater look dark green. The outdoor shot was clear, but the colors were not as vivid as with the higher-end cameras we tested, and both shots were low in detail. Despite these accuracy problems, the shots came out relatively clear and well balanced. On our performance benchmarks, the DC20 was the slowest to transfer images in all the tests.

A generous selection of home-oriented software comes bundled with the DC20, including PictureWorks Technology's PhotoEnhancer Special Fun Edition, Kodak's own Picture Postcard software, and MetaTools' Kai's Power Goo. These applications can give your kids plenty of hours of fun contorting family mugs or sharing vacation shots with friends.

Designed as a low-cost way to capture a few digital pictures, the Eastman Kodak DC20 has an attractive sub-\$200 price tag. While its picture quality doesn't compare to that of the more expensive models, the DC20 fits the bill for casual shutter-snapping.

Eastman Kodak DC25

The Eastman Kodak DC25 is built for a more discriminating audience than is the DC20. With an average mail-order price more than twice that of the DC20, this \$465 model is still reasonably priced, considering its features. The DC25 is the only camera in this roundup, for instance, to support industry-standard removable CompactFlash memory cards for unlimited storage on the road. Like the DC20, it offers 493x373 and 320x240 resolutions.

The DC25 has all the features you'd look for in a digital camera: an LCD screen for previewing images or using as a digital viewfinder, an optical viewfinder, a built-in flash, and a CompactFlash slot located on the right side of the camera. The base unit contains 2MB of flash memory that can store 14 high-resolution images. Using full-screen menus on the

LCD, you can move captured images to one of Kodak's 2MB Picture Cards or any CompactFlash-compliant card, adding approximately 13 high-res shots per 2MB.

The camera itself has a sleek and comfortable feel to it, and you can use either the optical viewfinder or the digital LCD screen to frame your images. To activate the digital-viewfinder feature, you must hold down an awkward combination of buttons for three seconds. When the screen does switch into viewfinder mode, the refresh rate is extremely slow. Using an LCD as a viewfinder is a very power-hungry feature for all of these cameras, after all, and the refresh rate is one way for the vendors to manage battery drain.

While the DC25's screen is too slow for using as a viewfinder, it is fine for reviewing captured images. Buttons on each side of the display make it easy to scroll through your shots and erase images. There is no confirmation warning before deletion, however, nor is there a way to protect images in the camera.

We found the quality of the DC25's test shots to be a mixed bag. The pictures had a reasonable color balance and brightness to them, but they contained interpolation flaws along the edges of objects. For example, the hood of the car in our outdoor shot appeared blurry against the lawn in the background. We noticed the same irregularities between contrasting objects in our indoor photo. Unlike a film camera, a digital camera relies as much on the photo processing after the image is captured as it does on the exposure itself. Kodak uses a proprietary compression technique that it claims minimizes the compression ratio in order to maintain quality. We were all the more surprised, therefore, that such interpolation glitches would appear.

The DC25 comes with the same selection of software as the DC20, along with the company's Picture Easy Software, an image-transfer package that lets you organize your shots.

The only camera to offer virtually unlimited memory expansion, the Kodak DC25 includes plenty of features at a reasonable price, and puts them in a comfortable physical design. If the company can rectify the image-processing quirks, this camera will be an even better value.

Epson PhotoPC 500

With a similar basic configuration to the Agfa ePhoto 307, the Epson PhotoPC 500 has a lower average mail-order price of \$486. The Epson package includes a generous selection of bundled software and offers some impressive options that the Agfa does not offer.

Like the Agfa, the Epson camera uses a larger design than most. The Epson camera, however, has a hidden compartment that accepts memory upgrades and a connector for the optional PhotoPix LCD monitor. Both upgrades make the Epson an excellent choice, since they afford you the flexibility to configure the unit to your specific needs. The standard 2MB of flash memory can be augmented with optional 2MB and 4MB memory modules. If you use the latter module to attain 6MB of total memory, your camera will be able to hold up to 100 images at the higher resolution of 640x480. At the lower 320x240 resolution, you can get twice that. As a bonus, the camera also comes with a large and sturdy belt-ready carrying case.

The optional \$189 (average mail-order) PhotoPix LCD monitor is a terrific add-on for the Epson PhotoPC 500. The screen snaps easily onto the left side of the camera and provides a digital viewfinder, image playback, and macro-mode functionality. The 1.8-inch color screen tilts about 100 degrees and sports its own controls, including a separate power switch. Of all the units with LCD screens, we found the Epson's worked the best as a digital viewfinder and was one of the brightest overall, though it lacked a brightness adjustment feature.

Our judges agreed the Epson produced images almost identical to the Agfa's in quality, with bright colors and crisp details. The Epson camera also provided similarly fast image-transfer speeds.

Unlike all the other units, the Epson accepts 37mm screw-on camcorder

lenses and filters. But the Epson's value doesn't end with the hardware options. The software bundle included with the camera is one of the standouts in the group. Although it does not bundle an image-editing package with the camera, Epson is the only vendor that includes a comprehensive set of Web-specific software: the Epson Internet Sampler Pack. This CD-ROM includes access software for America Online and EarthLink Network TotalAccess; a 60-day trial version of Claris' Home Page HTML authoring tool; and the Epson Edition of Postcards from the Net, a program that lets you send digital postcards via e-mail. The bundle also includes Sierra's Print Artist 3.0 and Epson's own PhotoPC 500 Imaging Software. The latter provides a very easy-to-use and flexible program for transferring your photos. The software also doubles as the unit's TWAIN driver to give you a consistent interface regardless of your target application.

Expandable storage, an optional LCD screen, and acceptance of external lenses, coupled with the Epson PhotoPC 500's rock-solid quality, make it quite a versatile model. The software is the icing on the cake, rendering the Epson an irresistible value.

Olympus D-200L

Don't let the traditional look of the Olympus D-200L fool you into thinking it's just another camera. Capable of 640x480 and 320x240 resolutions, the D-200L rivals the Epson and Agfa models in image quality and comes with a built-in LCD screen, at an average mail-order price of \$578.

The stylish Olympus case design feels comfortable right from the start. The top has a very large shutter button, an LCD status panel, and five buttons that control all of the camera's basic functions. The full-featured camera includes a built-in flash, macro mode, dual resolutions, image protection, and multiple thumbnail review via the LCD screen. The screen is on the rear of the unit, along with an optical viewfinder. Although the LCD proved to be one of the smoothest as a viewfinder, we found ourselves swapping batteries in this unit more than in any other. This camera uses a set of four AA batteries plus a separate lithium battery for maintaining date and time; the other cameras used their primary batteries for date and time features.

At its default settings, the Olympus camera delivered some of the nicest photos that we saw from this group. The color accuracy was right on, and the detail was excellent. Although it was a close call, our jury rated the Olympus just behind the Epson and Agfa in overall quality. Nevertheless, this unit's quality was still top-notch, and with midrange performance on our image transfer tests, it's sure to please.

Although the Olympus comes only with Adobe PhotoDeluxe, this package--when used with the TWAIN driver--serves as the primary transfer software. The TWAIN driver itself is very useful, with a simple tabbed interface that lets you review and download images from thumbnails; control all of the camera's functions in tethered mode; and set the date, time, and automatic power-down delay.

Despite its voracious appetite for battery juice, the Olympus D-200L is a quality unit. It doesn't offer memory expansion or the ability to add external lenses, but if you're looking for a solidly built camera that delivers excellent digital shots, the D-200L is a good choice.

The Big Picture

Although this very competitive end of the digital photography market is still evolving, we were impressed with what these vendors were able to achieve in low-cost models.

Overall, we found that the Epson PhotoPC 500 offers the most versatile value. Despite its midrange price tag, this camera delivers excellent quality out of the box while offering plenty of options, such as memory expansion, an LCD screen, and the unique ability to accept external lenses and filters. Epson's attention to its software bundle is also commendable. The PhotoPC 500 comes ready with software that recognizes the fact that you'll likely want to make Web pages. While some of the other cameras give

you software to e-mail your photos with fancy enhancements, the Epson was the only one to address HTML authoring, albeit only with a trial version.

The Agfa ePhoto 307 and the Olympus D-200L also delivered excellent quality. The Olympus offers an LCD screen, and both include built-in flashes and excellent transfer software. The Eastman Kodak DC25 came close to competing with these two but suffered from some apparent image-interpolation flaws. The DC25 was, however, the only model to offer a CompactFlash slot, a feature we'd like to see on more of these cameras. Eastman Kodak also has broken new ground with its entry-level DC20. Despite its ultra-low \$186 average mail-order price, this tiny camera delivered surprisingly reasonable quality along with some fun software. While its storage capacity is quite limited, it is easy enough for kids to use and functional enough for basic captures.

The two Casio models--the QV-10A Plus and QV-100--were quite different from the rest. They boldly rely on their digital viewfinders and present a very different design than the competition. Their quality was questionable, however, especially for outdoor shots.

Digital photography is still in its infancy, and will undoubtedly become increasingly important to camera manufacturers in the years ahead. As it stands, these cameras are not even close to low-end film cameras when it comes to print quality. But if you've never worked with a digital camera before, you'll appreciate the new flexibility it gives you. Whether you use one to archive your family photos or to run your business, you'll never want to go without one again.

Related article: How We Tested

We tested each digital camera with its bundled software, using a Dell Dimension XPS P133c 133MHz Pentium-based system, configured with 16MB of EDO RAM, 256K of L2 cache, a 1GB Quantum Fireball 1080A hard drive, a Number Nine Imagine 128 graphics card with 4MB of VRAM, and a 15-inch ADI MicroScan 4V monitor. We evaluated the photographic quality of each camera's output and ran two sets of timed performance tests.

For our qualitative jury test, we took two photographs with each camera mounted on a tripod, using the highest resolution and default settings. We took an outdoor scene with a house, automobile, and background landscape on a sunny day. We also took an indoor portrait from a distance of five feet, using ordinary incandescent lighting, and set the flash to automatic where applicable. To see how these digital models compare with a typical automatic 35mm film camera, we also took photographs of our test scenes with an Olympus Infinity II camera and had the photos developed by an overnight processing lab.

Our jury judged each image loaded in Adobe Photoshop 4.0 on our testbed with the graphics subsystem set to 800x600 resolution and 24-bit color. The jury examined both photos, looking for color accuracy, brightness, and sharpness of detail.

For our timed tests, we measured each camera's image-transfer (or download) speed using both high- and low-resolution images. We timed transfers from the cameras to our testbed, using each camera's bundled TWAIN 32 drivers to load the images into Photoshop, and using bundled transfer software to load the images into bundled image-editing software. We used each camera's highest transfer rate, which was 115.2Kbps for all of the cameras except for the two Casio models, which supported a maximum of 57.6Kbps.

In addition, we measured the amount of time it takes for each camera to recycle and prepare for the next shot--that is, to process, compress, and store each image, recharging the flash if necessary. Finally, we measured each camera's recycle time at its high resolution, both with and without the flash enabled.

Related article: Scanning the Alternatives

Product Listing

Polaroid PhotoPad Bundle

Polaroid Corp.

201 Burlington Rd.
Bedford, MA 01730
800-343-5000; 617-386-2000
www.polaroid.com
Direct Price: \$299

While photo scanners are a good way to digitize existing film prints, they can't rival a digital camera's ability to snap a photo and transfer it to your PC within seconds. Polaroid Corp., pioneer of instant photography, offers a clever compromise with its PhotoPad scanner and instant camera bundle, available direct from the company for \$299.

The PhotoPad bundle includes Polaroid's PhotoPad scanner along with a Polaroid Spectra 2 instant camera, the company's SuperColor with the Spectra 2 and scanning it with the PhotoPad, you can take a photo and have it on your PC within a few minutes.

Everything about the bundle is easy to use, and the setup process is a snap. The scanner connects to your parallel port via a pass-through connector, so you can continue to use a printer on the same port. The SuperColor software and TWAIN driver install from three disks. The SuperColor software is very user-friendly and lets you quickly trim the white border off your instant Polaroid photos after you scan them in. The scanner is self-feeding, so you need only insert the photo and click Scan, with no worries about hand shakiness. For most of the photos we scanned, the capture process was less than 1 minute.

The PhotoPad can accept photos as large as 4x6 inches and scan them at 100-dpi to 400-dpi resolution in 100-dpi increments (optical resolution is 200 dpi). The scanner is capable of capturing 256-shade gray-scale, and 8-bit or 24-bit color images.

We scanned all sorts of 35mm film photos with the PhotoPad scanner and found its quality to be excellent and its feed mechanism foolproof. Because the quality of the Spectra 2 instant photos were no match for 35mm film prints, scans of these were generally inferior in detail, color accuracy, and brightness. In fact, while the quality of the 35mm print scans was usually better than the images produced by the best digital cameras in our feature, the Spectra 2 scans couldn't match them.

The Polaroid PhotoPad bundle can't take your picture to pixels as fast as a digital camera. But with a direct price that's lower than most of the digital cameras reviewed here, the bundle gives you the added ability to scan in existing prints.

(For more information on photo scanners, look for our upcoming double feature on photo scanners and photo printers in the July 1997 issue of Computer Shopper.)

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25/3,K/1 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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05687797 Supplier Number: 53625022 (USE FORMAT 7 FOR FULLTEXT)

Digital is better-in camcorders.(Industry Trend or Event)

The Seybold Report on Internet Publishing, v2, n6, pNA(1)

Feb, 1998

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 2054

... on the PhotoDV interpolates images up to 1024768 pixels, but there is little point in **selecting** any **size** bigger than the **number** of **pixels** in the camera-you can't fake real resolution. And with a camcorder you don...

...after downward interpolation to square pixels, PAL video cameras have 25% more pixels than 640480 **digital** still **cameras** .

The Radius device has a control that sets de-interlacing to reduce the motion artifacts...

25/3,K/2 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2004 The Dialog Corp. All rts. reserv.

11226283 (USE FORMAT 7 OR 9 FOR FULLTEXT)

(PR) PhotoChannel Networks Inc. presents second quarter report for the period ending March 31, 2000

PR NEWSWIRE

May 26, 2000

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1327

... offer the largest slide show format available on the Web today. When a LARGE show **size** is **selected** , 400 x 400 **pixel** images are broadcast online. With a typical 17'' computer monitor set at 800 x 600...
?

32/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

05275955 Supplier Number: 48037004 (USE FORMAT 7 FOR FULLTEXT)
CyberLink Launches A/V Compression Software
Comline Computers, pN/A
Oct 7, 1997
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 153

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...video mail. Its video resolution is at QCIF (176-144) true color display. The video **compression ratio** is **adjustable** up to 900 times. The video frame rate is adjustable up to 15 frames per second. And the video **picture quality** is adjustable based on user's demand. The software requires a PC equipped with an...

...Windows 95 or NT 4.0, a sound card for audio playback, and a PC **camera** for video input.

32/3,K/2 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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04402365 Supplier Number: 46458275 (USE FORMAT 7 FOR FULLTEXT)
BUILT-IN IMAGE COMPRESSION EXTENDS MEMRECAM RECORDING TIME
News Release, pN/A
June 11, 1996
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 537

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...time of high-speed events up to 18.3 seconds. Additionally the high-speed video **camera** uses 3CCD chips for true color. It will be sold and serviced by Eastman Kodak...

...Europe, as part of a distribution agreement with NAC. The Memrecam C2S high-speed video **camera**, which uses JPEG compression, can compress up to a 20:1 ratio with only a minor differential in **image quality**. "This is a cost-effective solution for people who need longer than usual recording times..."

...full range of an athlete's motion needs to be recorded." The high-speed video **camera** can also be used in production and manufacturing applications where engineers and technicians need long...

...because you don't need to bother with triggering mechanisms," Balch says. "You simply point the **camera** at the subject, start the recording and review it on a monitor once the images are captured." Another convenient feature is the motion analyzer's ease of **adjusting the compression rate**. Users simply select a record time while simultaneously seeing the amount of image compression. From...

...to fit the amount of record time they need. The Memrecam C2S high-speed

video **camera** records a 504 x 242-pixel image at 200 full frames per second with a...

...operates as fast as 1/10,000th of a second to reduce motion blurring. The **camera** can also record up to 400 partial frames per second. The motion analyzer is a three-chip **camera**, one for each of the red, green and blue channels. This design gives users true colors for better imagery and greater analytical capabilities. The **camera**'s small size (3 x 3 x 5.9 inches) and 2,000-lux sensitivity level make it ideal for small, hard-to-reach areas with low light. The **camera**, which uses standard N-mount television lenses, weighs 1.76 pounds. "Up to 10 processors/**cameras** can be controlled at one time from an optional multi-**camera** sync unit, which is useful when you want to see the same event from different...

...C2S is part of the Memrecam product family, it can be combined with the Ci **cameras** to the same multi-**camera** sync unit for even greater analytical capabilities." The processor comes with a data magazine where...

...viewed, saved or erased (all controlled from the processor's easy-to-use panel), the **camera** is ready to record again. For information on this or

other Kodak high-speed motion...

32/3,K/3 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

10420643 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Digital Photos Blaze Across Internet With New Image Encoding Software From LizardTech

PR NEWSWIRE

April 05, 2000

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 778

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... TIFF and JPEG images 10MB or less, including images from the latest 3.3 megapixel **cameras** -- Adjustable encoding levels for different file size reduction ratios -- Windows(R) 95/98/2000 and...

32/3,K/4 (Item 1 from file: 608)

DIALOG(R)File 608:KR/T Bus.News.

(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.

06650829 (USE FORMAT 7 OR 9 FOR FULLTEXT)

The Boston Globe Plugged-In Column

Simson L. Garfinkel

Boston Globe

April 08, 1999

DOCUMENT TYPE: NEWSPAPER RECORD TYPE: FULLTEXT LANGUAGE: ENGLISH

WORD COUNT: 1076

TEXT: By Simson L. Garfinkel, The Boston Globe

Apr. 8--KODAK DIGITAL **CAMERAS** AMONG BEST AROUND BUT VERY EXPENSIVE:

Children love digital **cameras**. You snap their picture, and the kids are displayed on a screen on the **camera**'s backside.

The big advantage of a digital **camera** is that the instant you snap the

picture, you can take the image into your...

...it to a friend, or electronically retouch it. The second big advantage of a digital **camera** is storage: You can cram more than 10,000 pictures into a one gigabyte hard...

...no more bursting binders.

But despite the allure of the digital, last year's e- **cameras** were, for the most part, quite limited. Basically point-and-shoot devices, these **cameras** had limited memory. That meant you frequently had to empty the images; they had limited resolution; and they couldn't adequately reproduce detail in bright spots or in shadows. The **cameras** themselves had few features. Another problem was in the optics: Most of last year's **cameras** were fixed-focus, which further reduced **image quality**.

Cameras released this year are likely to be significantly better, both as advances in computers move into these hand-held devices, and as **camera** makers begin to catch their stride. Increasingly, these **cameras** must stand on their own as photographic devices, rather than electronic playthings.

From the beginning...

...a pioneer in the field of digital photography. Recently, the company released two new digital **cameras**. Both are among the best available. Alas, they are also quite expensive.

Kodak's DC240 (\$700) is a sophisticated digital **camera** with a built-in zoom, built-in flash, and 8MB of compact flash memory. It...

...as a 4 inch by 5 inch photograph. Besides changing the resolution, you can also **adjust** the **compression setting**, allowing you to get between 30 and 160 images in a 8MB flash cartridge.

Kodak's more-expensive DC265 (\$1,000) **camera** is loaded with more features, but of course that's what you are paying for...

...little audio note for each photo, and a little speaker to play it back. The **camera** uses this speaker to make sound effects when you take a photo or click the...

...cool on the DC265 is that it has a gravity sensor: When you turn the **camera** sideways, it senses the turn and automatically rotates the image back when the picture is...

...frame probably will. Time-lapse is useful for surveillance, scientific experiments, and nature photography.

Both **cameras** have a little LCD screen on the back that lets you view the pictures that you have taken as well as set the **camera**'s controls. Both **cameras** have a built-in flash, which you can disable, and both allow you to set the color balance of your scene. That is, you can tell the **camera** whether the lighting is by sunlight, fluorescent, or tungsten bulbs.

The **cameras** also come with programs that allow you to control nearly all of the **camera**'s settings from your computer -- a process that's much easier than fiddling with the **camera**'s built-in menu system. The DC240's software is more sophisticated than the software...

...snap a picture.

The easiest way to get the images out of one of these **cameras** is to take the compact flash picture card out of the **camera** and plug it into your PC using Kodak's optional connection kit. The kit comes...

...into your computer is to use the USB (Universal Serial Bus) interface. Once attached, the **camera** looks like an external hard drive. One good piece of software engineering that Kodak has...

...speed of USB, viewing the photos this way is quite slow.
Overall, these are nice **cameras** , but \$700 or more is a lot for a point-and-shoot, and I would like to see a bit more **camera** for the money. My first problem with these machines isn't the electronics, but the optics. Both of these **cameras** have the problem that when you hit the shutter button, they don't take the...need factory replacement. Battery drain is another problem. One of the big advantages of digital **cameras** is that you don't need to keep buying film. Unfortunately, these **cameras** both suck batteries dry -- you'll be lucky if you get 50 shots from a...

32/3,K/5 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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02733769 Supplier Number: 45547005 (USE FORMAT 7 FOR FULLTEXT)

VSIN FROM HAYNEN STORES/TRANSMITS HQ VIDEO IMAGES OVER ANY COMMUNICATION LINK

M2 Presswire, pN/A

May 17, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 215

... Video Systems Integrated Network) is a powerful system for the transmission and storage of "high **quality** " video **images** from surveillance and monitoring **cameras** . VSIN operates over analogue and digital communication links including public (PSTN) and private telephone lines...

...telemetry, alarm evaluation etc. The color/b-w image parameters as resolution, window dimensions, refresh **rate** and "real-time" JPEG image-**compression** are "dynamically" **adjustable** from the receiving side. Alarm sensing fields with movement detection levels are programmable. Like with

...be stored in RAM and on disk. VSIN is available as a stand-alone system (**camera** , VSIN-transmitter, - receiver and monitor), as a PC-version with Windows software for easy integration in digital networks and on an extended Eurocard for OEM-applications. Up to 4 **cameras** and 8 alarm/data signals can be connected to each VSIN-transmitter.

CONTACT: Heynen NV...

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35/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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02117146 SUPPLIER NUMBER: 19960211 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Print '97 review, part II: workflow, high-resolution RIPs and imagers.
(show report) (Industry Trend or Event)
Seybold Report on Publishing Systems, v27, n4, p3(15)
Oct 27, 1997
ISSN: 0736-7260 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 13021 LINE COUNT: 01007

... raw PostScript, for example Creo, with its PreScript.
* TIFF 6, in which case the operator **chooses** the **number** of bits
per **pixel** , **compression** , antialiasing, etc.
* Other **options** -EPS, run-length-encoded files, LZW-compressed, etc.
If desired, the system will generate a...

35/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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02028126 SUPPLIER NUMBER: 18890508 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Video, phone home. (Connectix's Color QuickCam for Windows digital camera
and VideoPhone 1.1 for Windows videoconferencing software) (Hardware
Review) (Software Review) (Evaluation) (Brief Article)
Keizer, Gregg
Computer Life, v3, n12, p269(4)
Dec, 1996
DOCUMENT TYPE: Evaluation Brief Article ISSN: 1076-9862
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1446 LINE COUNT: 00108

... then fires up VideoPhone.
6. SET THE VIDEO COMPRESSION. Open VideoPhone, select Video from the
Settings menu, and choose **Compression** . When the image is 160 by 120
pixels or larger (**select** Image **Size** and Quality from Video), use the
included NSVideo V3.1 compressor (which works with 90MHz...

35/3,K/3 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01846730 SUPPLIER NUMBER: 17587419 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Picture this: image-editing software for Windows and Macintosh. (comparison
of 7 products) (Software Review) (Evaluation)
Glinert, Susan
Computer Shopper, v15, n11, p536(9)
Nov, 1995
DOCUMENT TYPE: Evaluation ISSN: 0886-0556 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 4653 LINE COUNT: 00400

... selection outline behavior (Shrink, Shrink to Box, No Shrink,
Shrink and Dropout, and Grow). The **Shrink** to Box **option** , for example,
reduces an outline to the smallest possible rectangle, using the outermost
points of the **selected area** to define the perimeter. **PixelPaint** 's
magic wand is powerful, too, as it can select by touched luminance, touched